This printed version of the Schedule of Classes is current as of 1/7/19 8:48 AM.

AASP African American Studies Fall 2018

AASP100 **Introduction to African American Studies**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH, D | General Education: DSHS, DVUP

Significant aspects of the history of African Americans with particular emphasis on the evolution and development of black communities from slavery to the present. Interdisciplinary introduction to social, political, legal and economic roots of contemporary problems faced by blacks in the United States with applications to the lives of other racial and ethnic minorities in the Americas and in other societies.

0101	Shane Walsh MWF 10:00am - 10:50am	Seats (Total: 35) WDS 1114
0201	Shane Walsh MWF 12:00pm - 12:50pm	Seats (Total: 35) TYD 1101
0301	Jonathan England TuTh 9:30am - 10:45am	Seats (Total: 35) LEF 1201
0401	Jonathan England TuTh 12:30pm - 1:45pm	Seats (Total: 30) HBK 0109
0501	Jason Nichols TuTh 11:00am - 12:15pm	Seats (Total: 35) SQH 1101
0601	Jason Nichols TuTh 2:00pm - 3:15pm	Seats (Total: 35) PLS 1117

AASP100H **Introduction to African American Studies**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH, D | General Education: DSHS, DVUP

Significant aspects of the history of African Americans with particular emphasis on the evolution and development of black communities from slavery to the present. Interdisciplinary introduction to social, political, legal and economic roots of contemporary problems faced by blacks in the United States with applications to the lives of other racial and ethnic minorities in the Americas and in other societies.

0101	Jonathan England TuTh 12:30pm - 1:45pm	Seats (Total: 5) HBK 0109

AASP101 **Public Policy and the Black Community**

Credits: 3 | Grading Method: Regular, Pass-Fail | CORE: SB | General Education: DSHS

Formerly: AASP300.

The impact of public policies on the black community and the role of the policy process in affecting the social, economic and political well-being of minorities. Particular attention given to the post-1960 to present era.

0101	Alana Hackshaw TuTh 11:00am - 12:15pm	Seats (Total: 40) SQH 1103

AASP187 **The New Jim Crow: African-Americans, Mass Incarceration and the Prison Industrial Complex**

Credits: 3 | Grading Method: Regular, Pass-Fail | General Education: DSHS, DVUP, SCIS

Recommended: AASP100.

Students will examine the birth of the racial caste system following the abolition of slavery, the parallels between the racial hierarchy of the Jim Crow system and contemporary mass incarceration, and the rise of the prison industrial complex as a multi-billon business which thrives on the oppression of low-income populations and poor communities of color.

0101	Joseph Richardson TuTh 3:00pm - 4:15pm	Seats (Total: 60) TYD 0117

AASP200 **African Civilization**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO | General Education: DSHU

A survey of African civilizations from 4500 B.C. to present. Analysis of traditional social systems. Discussion of the impact of European colonization on these civilizations. Analysis of the influence of traditional African social systems on modern African institutions as well as discussion of contemporary processes of Africanization.

0101	George Kintiba MW 12:00pm - 1:15pm	Seats (Total: 40) ARC 1103
FC01	George Kintiba TuTh 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 30) KEY 0100

AASP202 **Black Culture in the United States**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: SH, D	General Education: DSHS, DVUP

The course examines important aspects of African American life and thought which are reflected in African American literature, drama, music and art. Beginning with the cultural heritage of slavery, the course surveys the changing modes of black creative expression from the 19th-century to the present.

0101	Renina Jarmon MWF 11:00am - 11:50am	Seats (Total: 35) TYD 1101
0102	Renina Jarmon MWF 1:00pm - 1:50pm	Seats (Total: 35) SQH 1107
0103	Robert Choflet TuTh 11:00am - 12:15pm	Seats (Total: 35) ARC 1105
0104	Robert Choflet TuTh 2:00pm - 3:15pm	Seats (Total: 35) LEF 1201

AASP202H **Black Culture in the United States**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: SH, D	General Education: DSHS, DVUP

The course examines important aspects of African American life and thought which are reflected in African American literature, drama, music and art. Beginning with the cultural heritage of slavery, the course surveys the changing modes of black creative expression from the 19th-century to the present.

0101	Robert Choflet TuTh 11:00am - 12:15pm	Seats (Total: 8) ARC 1105

AASP274 **Creative Writing Through The Eyes of African Americans: A Beginning Workshop**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	General Education: DSSP

Restriction: Must not have completed any courses from ENGL278C, AASP274, AASP298W, ENGL274, ENGL271, ENGL294N, or ENGL294. Also offered as: ENGL274. Credit only granted for: ENGL274, ENGL278C, ENGL294, ENGL294N, AASP274 or AASP298W. Formerly: AASP298W.

Introduction to theory and practice of writing fiction, drama and poetry, with an emphasis on African American literary models. Critical reading, exercises and workshop discussions with continual reference to modeling, drafting, and revising as necessary stages in a creative process.

0101	Cameron McCary, Dorothy Phaire TuTh 9:30am - 10:45am	Seats (Total: 20) NCC 0120

AASP297 **Research Methods in African American Studies**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: AASP101 or AASP202. Restriction: Must be in African American Studies program. Credit only granted for: AASP297 or AASP299R. Formerly: AASP299R.

Introduces African American Studies majors to the basic research skills methodologies, sources, and repositories for studying African Diaspora. Students will be required to select a research topic, write a research proposal, develop an annotated bibliography, and in the process will be prepared for completing their senior thesis or other significant writing projects necessary to fulfill the requirements of the major.

0101	Sharon Harley TuTh 11:00am - 12:15pm	Seats (Total: 20) TLF 1102

AASP298C **Special Topics in African American Studies; African-American History to 1865**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DVUP

An introductory multi-disciplinary and inter-disciplinary educational experience to explore issues relevant to black life, cultural experiences, and political, economic, and artistic development.

Also offered as AASP298C. Credit will be granted for AASP298C or HIST 254.

0101	Christopher Bonner TuTh 11:00am - 12:15pm	Seats (Total: 40) KEY 0116

AASP298D **Special Topics in African American Studies; African-American Health Disparities and Social Justice**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An introductory multi-disciplinary and inter-disciplinary educational experience to explore issues relevant to black life, cultural experiences, and political, economic, and artistic development.

0101	Caryn Bell MW 2:00pm - 3:15pm	Seats (Total: 35) SQH 1101

AASP298I **Special Topics in African American Studies; Introduction to Black Women's Studies**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An introductory multi-disciplinary and inter-disciplinary educational experience to explore issues relevant to black life, cultural experiences, and political, economic, and artistic development.

Also offered as AASP298I. Credit only granted for WMST298A or AASP298I.

0101	Tangere Hoagland W 6:00pm - 8:30pm	Seats (Total: 30) ASY 3211

AASP298L **Special Topics in Afro-American Studies: African-American Literature and Culture**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HL, D General Education: DSHU, DVUP

Also offered as ENGL234. Credit granted for AASP298L or ENGL234.

0201	Norrell Edwards MWF 12:00pm - 12:50pm	Seats (Total: 30) TWS 1107

AASP298P **Special Topics in African American Studies; Poverty, Race, and African-American Children**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An introductory multi-disciplinary and inter-disciplinary educational experience to explore issues relevant to black life, cultural experiences, and political, economic, and artistic development.

0101	Cecily Hardaway TuTh 2:00pm - 3:15pm	Seats (Total: 35) SQH 1107

AASP299I **Selected Topics in African American Studies; Introduction to Igbo**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

An introductory multi-disciplinary academic exploration of the cultural, political, and economic issues relevant to Africans and African-Americans.

From language to tradition, Elementary Igbo I provides insight into tradition, culture and their importance to Igbo language. Students will be provided with the tool set to read, write, and speak Igbo. This is part of the STIC (student initiated courses) program and will be taught by undergraduates under the supervision of a faculty advisor.

0101	Sangeetha Madhavan M 3:30pm - 4:45pm	Seats (Total: 25) LEF 1201

AASP299T **Selected Topics in African American Studies; Introduction to Twi**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

An introductory multi-disciplinary academic exploration of the cultural, political, and economic issues relevant to Africans and African-Americans.

This is a language course designed to provide basic communicative competence in oral Twi for beginners. This is part of the STIC (student initiated courses) program and will be taught by undergraduates under the supervision of a faculty advisor.

0101	George Kintiba W 3:00pm - 4:15pm	Seats (Total: 25) SQH 1107

AASP299Y **Selected Topics in African American Studies; Introduction to Yoruba**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

An introductory multi-disciplinary academic exploration of the cultural, political, and economic issues relevant to Africans and African-Americans.

0101	Jason Nichols M 3:30pm - 4:45pm	Seats (Total: 25) WDS 0104

AASP301 **Applied Policy Analysis and the Black Community**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: AASP101; and (ECON201 or ECON200). Recommended: Completion of one semester of statistics is recommended.

Development and application of the tools needed for examining the effectiveness of alternative policy options confronting minority communities. Review policy research methods used in forming and evaluating policies. Examination of the policy process.

0101	Ricco Hall W 6:30pm - 9:00pm	Seats (Total: 24) TLF 1101

AASP310 **African Slave Trade**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: AASP202 or AASP100; or permission of BSOS-African American Studies department. Formerly: AASP311.

The relationship of the slave trade of Africans to the development of British capitalism and its industrial revolution; and to the economic and social development of the Americas.

0101	George Kintiba W 2:00pm - 4:30pm	Seats (Total: 35) SYM 0215

AASP313 Black Women in United States History

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Restriction: Sophomore standing or higher. Also offered as: WMST314. Credit only granted for: AASP498W, AASP313, HIST329E, WMST314, or WMST498N. Formerly: AASP498W.

Black American women's history is examined from slavery to the present. The principal focus of the readings discussions and student assignments will be based upon gaining a fuller understanding of the effect of race, class and gender on the life cycles and multiple roles of Black women as mothers, daughters, wives, workers and social change agents. A variety of primary source materials on black women's experiences will be utilized.

Also offered as HIST329E and WMST314. Credit granted for AASP313, WMST314 and HIST329E.

0101	Elsa Barkley Brown M 6:00pm - 8:30pm	Seats (Total: 35) KEY 0103

AASP314 The Civil Rights Movement

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: AASP100 or HIST157.

Survey of the twentieth century civil rights movement from the desegregation of UM Law School through the National Black Political Congress in Gary in 1972. Major themes include leadership, legal and constitutional challenges, non-violence, Black Power, and Pan-Africanism.

0101	Jerry Semper W 5:00pm - 7:30pm	Seats (Total: 45) SQH 1117

AASP386 Experiential Learning

(Perm req)

Credits: 3-6

Grading Method: Regular, Pass-Fail

Restriction: Permission of BSOS-African American Studies department; and junior standing or higher.

0101	Marshal Washington	Seats (Total: 10)
	Th 10:00am - 12:30pm	TLF B0106

AASP395 **Fundamentals of Quantitative Research in Socio-Cultural Perspective**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in African American Studies program; and junior standing or higher.

Introduction to quantitative methods for African American Studies major in the cultural and social analysis concentration. Basics of survey design and experimental design and data analysis and use of statistical software programs.

0101	Cecily Hardaway	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	WDS 1131

AASP396 **Independent Study Non-Thesis Option**

Credits: 3

Grading Method: Regular

Prerequisite: AASP386 and AASP297. Restriction: Must be in African American Studies program. Credit only granted for: AASP396 or AASP397.

A research seminar that allows African American Studies majors to complete an independent study research project in lieu of completing the AASP397: Senior Thesis. Students will examine various concepts of race, gender, labor and ethnicity in the seminar lecture component to be applied toward their specific research projects.

0101	Angel Dunbar	Seats (Total: 10)
	W 3:00pm - 5:30pm	TLF 1102

AASP397 **Senior Thesis**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of BSOS-African American Studies department.

Directed research in African American Studies resulting in the completion and defense of a senior thesis.

Contact department for information to register for this course.

AASP398P **Selected Topics in the African Diaspora; African Studies: Intro to Pan-Africanism**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Analysis of the historical experiences and cultures of Africans in the diaspora.

0101	George Kintiba	Seats (Total: 35)
	M 2:00pm - 4:30pm	TYD 0101

AASP398Q **Selected Topics in the African Diaspora; Black Baltimore in the Post Racial U.S: African American Urban Culture in the Age of Obama**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Analysis of the historical experiences and cultures of Africans in the diaspora.

0101	Robert Choflet	Seats (Total: 35)
	Th 4:00pm - 6:30pm	ASY 3203

AASP398V **Selected Topics in the African Diaspora; Public Interpretations of African American History**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Analysis of the historical experiences and cultures of Africans in the diaspora.

Also offered as AMST328F and HIST329J. Credit only granted for HIST329J or AASP393V or AMST328F. This course analyzes public interpretations of African American history, considering the ways in which museums, historic sites, films, children's books, social media, and public school lesson plans have interpreted African American history. Students will also learn the core themes of public history such as shared authority, memory, ethical frameworks, and the practice of history in public spaces.

0101	Felicia Jamison	Seats (Total: 25)
	MW 3:30pm - 4:45pm	TLF 2103

AASP400 **Directed Readings in African American Studies**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

General Education: DSHS, DVUP

Prerequisite: AASP202 or AASP100.

The readings will be directed by the faculty of African American Studies. Topics to be covered will be chosen to meet the needs and interests of individual students.

Also offered as WMST498Y. Credit will be granted for one of the following: AASP400, AASP400H, or WMST498Y.

0101	Sharon Harley TuTh 2:00pm - 3:15pm	Seats (Total: 15) KEY 0102

AASP400H **Directed Readings in African American Studies**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, DVUP

Prerequisite: AASP202 or AASP100.

The readings will be directed by the faculty of African American Studies. Topics to be covered will be chosen to meet the needs and interests of individual students.

For general honors students only. The readings will be directed by the faculty of African American Studies. Topics to be covered will be chosen to meet the needs and interests of individual students.

0101	Sharon Harley TuTh 2:00pm - 3:15pm	Seats (Total: 5) KEY 0102

AASP411 **Black Resistance Movements**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: AASP100.

A comparative study of the black resistance movements in Africa and America; analysis of their interrelationships as well as their impact on contemporary pan-Africanism.

0101	Jerry Semper W 2:00pm - 4:30pm	Seats (Total: 35) VMH 1207

AASP478C **Humanities Topics in African American Studies; African American Graphic Novel**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Advanced studies in the humanities, often requiring prerequisites, focusing on the literary, artistic and philosophical contributions of Africans and African Americans.

Also offered as ENGL378B. Credit only granted for ENGL378B or AASP478C.

0101	Blake Wilder	Seats (Total: 28)
	MW 2:00pm - 3:15pm	JMZ 0125

AASP478K **Humanities Topics in African American Studies; African-American Literature: 1945 to Present**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Advanced studies in the humanities, often requiring prerequisites, focusing on the literary, artistic and philosophical contributions of Africans and African Americans.

Also offered as ENGL472. Credit granted for ENGL472 or AASP478K.

0101	Laura Williams	Seats (Total: 23)
	TuTh 12:30pm - 1:45pm	TWS 0221

AASP479 **Special Research in African-American Studies**

(Perm req)

Credits: 1-3 Grading Method: Regular

AASP 479 is course credit related to supervised research activity within the African American Studies Department. This course is for non-majors who seek to work for a faculty member on their research project/s and/or working in their research lab as a Research Assistant (RA). The purpose of this course is to expose undergraduate students to theories and methods used to understand the live s and experience of Black people across the diaspora via hands-on/applied research experience. A faculty member must agree to supervise your research activity before you can enroll for course credit.

Contact department for information to register for this course.

AASP498D **Special Topics in Black Culture; Caribbean Women**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Advanced study of the cultural and historical antecedents of contemporary African and African American society. Emphasis on the social, political, economic and behavioral factors affecting blacks and their communities. Topics vary.

Also offered as WMST360. Credit only granted for WMST360 or AASP498D.

0101	Michelle Rowley	Seats (Total: 30)
	TuTh 12:30pm - 1:45pm	TYD 0111

AASP498J **Special Topics in Black Culture; Racial Socialization of Children and Adolescents: Theory, Research and Practice**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Advanced study of the cultural and historical antecedents of contemporary African and African American society. Emphasis on the social, political, economic and behavioral factors affecting blacks and their communities. Topics vary.

0101	Angel Dunbar MW 12:00pm - 1:15pm	Seats (Total: 35) HBK 0109

AASP498O **Special Topics in Black Culture; African American and Latino Social, Cultural and Political Relations: 1940 to Present**

Credits: 3 Grading Method: Regular

Advanced study of the cultural and historical antecedents of contemporary African and African American society. Emphasis on the social, political, economic and behavioral factors affecting blacks and their communities. Topics vary.

0101	Jason Nichols W 4:00pm - 6:30pm	Seats (Total: 35) TYD 1118

AASP499A **Advanced Topics in Public Policy and the Black Community; Reducing Black - White Achievement Gaps**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Examination of specific areas of policy development and evaluation in black and other communities. Application of advanced tools of policy analysis, especially quantitative, statistical and micro-economic analysis.

0101	Oscar Barbarin TuTh 11:00am - 12:15pm	Seats (Total: 30) LEF 1220

AASP499C **Advanced Topics in Public Policy and the Black Community; Race and Reproduction**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Examination of specific areas of policy development and evaluation in black and other communities. Application of advanced tools of policy analysis, especially quantitative, statistical and micro-economic analysis.

Also offered as AMST498E, SOCY498F, and WMST428C. Credit only granted for AASP499C, AMST498E, SOCY498F, or WMST428C.

0101	Sangeetha Madhavan W 2:00pm - 4:30pm	Seats (Total: 35) ASY 3203

AASP499P **Advanced Topics in Public Policy and the Black Community; African-American Politics from Frederick Douglass to Barack Obama**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Examination of specific areas of policy development and evaluation in black and other communities. Application of advanced tools of policy analysis, especially quantitative, statistical and micro-economic analysis.

Also offered as PLCY388B and GVPT368L. Credit only granted for AASP499P, GVPT368L, or PLCY388B.

0101	Jonathan England Tu 3:30pm - 6:00pm	Seats (Total: 35) LEF 1201

AAST Asian American Studies Fall 2018

AAST200 **Introduction to Asian American Studies**

Credits: 3 Grading Method: Regular, Pass-Fail CORE: SB, D General Education: DSHS, DVUP

The aggregate experience of Asian Pacific Americans, from developments in the countries of origin to their contemporary issues. The histories of Asian Pacific American groups as well as culture, politics, the media, and stereotypes, viewed from an interdisciplinary perspective.

Also offered as AMST298C. Credit granted for AAST200 or AMST298C.

0101	Terry Park TuTh 11:00am - 12:15pm	Seats (Total: 40) ASY 3207
0201	Terry Park TuTh 2:00pm - 3:15pm	Seats (Total: 25) SQH 1103

AAST233 **Introduction to Asian American Literature**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HL, D General Education: DSHU, DVUP

Also offered as: ENGL233. Credit only granted for: ENGL233 or AAST233.

A survey of Asian American literature with an emphasis on recurrent themes and historical context.

0101	Andy Yeh TuTh 9:30am - 10:45am	Seats (Total: 35) TWS 1310

AAST298B **Special Topics in Asian American Studies; Visual Cultures of Islam**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An introductory multidisciplinary and interdisciplinary educational experience to explore issues relevant to Asian American life, cultural experiences; and political, economic, and artistic development.

Also offered as ARTH389L, HIST219E, PERS298E, and RELS219E. Credit only granted for HIST219E, AAST298B, ARTH389L, PERS298E, or RELS219E. Visual Cultures of Islam is part of the Digital Islamic Studies Curriculum (digitalislam.umich.edu). This course is taught by renowned University of Michigan instructor, Christiane Gruber, an expert in the field of Islamic Art, and digitally shared with the University of Maryland. In this course, Professor Gruber explores definitions of "Islamic" art and investigates various visual cultures of Islam around the world from the 7th to the 20th century. The course meets twice a week in real time using video conferencing technology and students are able to enroll directly at Maryland for course credit.

0101	Instructor: TBA MW 11:30am - 1:00pm	Seats (Total: 10) HJP 3120

AAST378 **Experiential Learning**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Field experience/internship in professional organizations and appropriate private and governmental agencies serving the Asian American community.

0101	Julie Park Contact instructor or department for details.	Seats (Total: 2)
0201	Kristina Mascarenas W 3:00pm - 5:30pm	Seats (Total: 5) SQH 1111

AAST388 **Independent Research**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Directed, independent study in Asian American Studies resulting in the completion of an original research paper.

0101	Julie Park Contact instructor or department for details.	Seats (Total: 1)
0201	Terry Park Contact instructor or department for details.	Seats (Total: 5)

AAST398D **Selected Topics in Asian American Studies; Filipino American History and Biography**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, DVUP

Study of a specific theme or issue involving the Asian America experience.

Also offered as AMST328J. Credit granted for AAST398D or AMST328J. Focus is placed on Filipino American experiences with an emphasis on identity, community building and organizing to influence public policy. We will cover pertinent events from the US and Philippine history in order to understand the impact of colonialism, migration, immigration and assimilation on Filipino Americans.

0101	Gemirald Daus Tu 5:00pm - 7:45pm	Seats (Total: 35) ASY 3207

AAST398E **Selected Topics in Asian American Studies; Growing Up Asian American: The Asian Immigrant Family and the Second Generation**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Study of a specific theme or issue involving the Asian America experience.

Also offered as AMST328V and IMMR319G. Credit granted for AAST398E or AMST328V or IMMR319G. An interdisciplinary course examines the experiences of children of Asian immigrants in the U.S., focusing on intergenerational dynamics in the Asian immigrant family, their intersections with race, gender, class, sexuality, and religion, and how these shape second-generation Asian American life. Topics include identity and personhood, the model minority myth and education, work and leisure, language and communication, filiality and disownment, mental health and suicide.

0101	Jia Li Liu TuTh 3:30pm - 4:45pm	Seats (Total: 30) ASY 3211

AAST498J **Advanced Topics in Asian American Studies; Asian American Psychology**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Advanced study of the cultural and historical antecedents of contemporary Asian American society. Emphasis on the social, political, economic, and behavioral factors affecting Asian Americans and their communities.

Also offered as AMST498Q and PSYC489Z. Credit only granted for AAST498J, AMST498Q, or PSYC489Z. This course provides students with an understanding of the ecological influences on Asian American psychological well-being. It begins with the individual, covering topics relating to various social identities pertaining to Asian Americans. Moving outward, it highlights family and peer relationships. At the community and cultural level, the course focuses on the process of migration and acculturation. Finally, it concludes with a discussion of social advocacy, service provisions and cultural competency.

0101	Xiaofang Wang Lanterman	Seats (Total: 25)
	TuTh 2:00pm - 3:15pm	JMZ 1215

AAST498X **Advanced Topics in Asian American Studies; Techno-Orientalism**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Advanced study of the cultural and historical antecedents of contemporary Asian American society. Emphasis on the social, political, economic, and behavioral factors affecting Asian Americans and their communities.

The course examines how US American culture has often projected its fantasies and fears about the future onto Asia and Asian Americans, from the yellow peril of the early twentieth century to the rise of Japan at the forefront of technological change in the 1980s to current anxieties about Chinese global dominance. Themes include how Asian American writers, artists, and filmmakers contest stereotypes of Asians and Asian Americans in US popular culture and in some cases, redeploy for their own speculative imaginaries of a just, Asian American future.

0101	Terry Park	Seats (Total: 20)
	W 5:00pm - 7:30pm	SQH 1123

AGNR Agriculture and Natural Resources Fall 2018

AGNR200 **AGNR 2+2 Program Extended Orientation Seminar**

Credits: 1 Grading Method: Regular

Prerequisite: Must be a first semester international student enrolled in the AGNR 2+2 Program. Restriction: Must be a first year international student enrolled in the College of Agriculture and Natural Resources 2+2 Program. Additional information: It is strongly recommended that AGNR 2+2 students take AGNR 200 during the first semester at the University. One class meeting per week. This courses is initiated by International Programs and will be coordinated in conjunction with the College of AGNR.

Introduces AGNR 2+2 students to University and "American" life. Assists with their successful transition to the College and Agriculture and Natural Resources and the University of Maryland. Helps students to understand their place in AGNR at to learn about the resources available to them.

0101	Chenglin Zhu	Seats (Total: 25)
	M 4:00pm - 6:00pm	SYM 0209

AGNR301 **Sustainability**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Also offered as: PUAF301. Credit only granted for: AGNR301 or PUAF301.

Designed for students whose academic majors would be enhanced by the complementary study of a widely shared but hard-to-operationalize aspiration: that present choices should preserve or improve future options rather than foreclose or degrade them. How should we understand sustainability? How might we achieve it? How would we know if we had achieved it? And how could sustainability activists of a rising generation lead by example?

0101	Daria Scala	Seats (Total: 165)
	TuTh 12:30pm - 1:45pm	LEF 2205

AGNR388 **Honors Thesis Research**

(Perm req)

Credits: 3-6 Grading Method: Regular

Undergraduate honors thesis research conducted under the direction of an AGNR faculty member in partial fulfillment of the requirements of the College of AGNR Honors Program. The thesis will be defended to a faculty committee.

0101	Evelyn Cooper	Seats (Total: 5)
	Contact instructor or department for details.	

AGNR499 **Special Problems; Special Problems**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

0102	Evelyn Cooper	Seats (Total: 1)
	Contact instructor or department for details.	

AMSC Applied Mathematics & Scientific Computation Fall 2018

AMSC460 **Computational Methods**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH240, MATH461, MATH341); and 1 course with a minimum grade of C- from (MATH340, MATH241); and 1 course with a minimum grade of C- from (CMSC106, CMSC131); and minimum grade of C- in MATH246. Also offered as: CMSC460. Credit only granted for: AMSC460, CMSC460, AMSC466, or CMSC466.

Basic computational methods for interpolation, least squares, approximation, numerical quadrature, numerical solution of polynomial and transcendental equations, systems of linear equations and initial value problems for ordinary differential equations. Emphasis on methods and their computational properties rather than their analytic aspects. Intended primarily for students in the physical and engineering sciences.

0101	Akwum Onwunta MWF 2:00pm - 2:50pm	Seats (Total: 25) MTH 0405
0201	Juan Pablo Borthagaray TuTh 11:00am - 12:15pm	Seats (Total: 31) AJC 2121
0301	Tobias von Petersdorff TuTh 3:30pm - 4:45pm	Seats (Total: 28) MTH 0411
0401	Howard Elman TuTh 2:00pm - 3:15pm	Seats (Total: 40) CSI 3120

AMSC466 **Introduction to Numerical Analysis I**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH240, MATH461, MATH341); and 1 course with a minimum grade of C- from (MATH340, MATH241); and 1 course with a minimum grade of C- from (CMSC106, CMSC131); and minimum grade of C- in MATH410. Also offered as: CMSC466. Credit only granted for: AMSC460, CMSC460, AMSC466, or CMSC466.

Floating point computations, direct methods for linear systems, interpolation, solution of nonlinear equations.

Click here for more course information.

0101	Eitan Tadmor TuTh 2:00pm - 3:15pm	Seats (Total: 32) CSI 4122

AMSC498A **Selected Topics in Applied Mathematics**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Topics in applied mathematics of special interest to advanced undergraduate students.

Contact department for information to register for this course.

AMSC660 **Scientific Computing I**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Must have knowledge of C or Fortran. And AMSC460 or CMSC460; or (CMSC466 or AMSC466); or (must have knowledge of basic numerical analysis (linear equations, nonlinear integration, interpolation); and permission of instructor). Also offered as: CMSC660. Credit only granted for: AMSC660 or CMSC660.

Monte Carlo simulation, numerical linear algebra, nonlinear systems and continuation method, optimization, ordinary differential equations. Fundamental techniques in scientific computation with an introduction to the theory and software of each topic.

0101	Lise-Marie Imbert-Gerard	Seats (Total: 30)
	TuTh 9:30am - 10:45am	MTH B0421

AMSC662 **Computer Organization and Programming for Scientific Computing**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have knowledge of C or Fortran. And AMSC460 or CMSC460; or (CMSC466 or AMSC466); or (must have knowledge of basic numerical analysis (linear equations, nonlinear equations, integration, interpolation); and permission of instructor). Also offered as: CMSC662. Credit only granted for: AMSC662 or CMSC662.

This course presents fundamental issues of computer hardware, software, parallel computing, and scientific data management for programming for scientific computation.

Contact department for information to register for this course.

AMSC663 **Advanced Scientific Computing I**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: CMSC660 or AMSC660; and (CMSC661 or AMSC661). Restriction: Permission of instructor. Also offered as: CMSC663. Credit only granted for: AMSC663 or CMSC663.

In the sequence AMSC663, AMSC664 students work on a year-long individual project to develop software for a scientific task in a high performance computing environment. Lectures will be given on available computational environments, code development, implementation of parallel algorithms.

0101	Thomas Goldstein	Seats (Total: 20)
	TuTh 2:00pm - 3:15pm	MTH B0425

AMSC666 **Numerical Analysis I**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: CMSC466 or AMSC466; and MATH410. Also offered as: CMSC666. Credit only granted for: AMSC666 or CMSC666.

Approximation theory, numerical solution of initial-value problems, iterative methods for linear systems, optimization.

Click here for more course information.

0101	Tobias von Petersdorff	Seats (Total: 25)
	TuTh 12:30pm - 1:45pm	MTH 0405

AMSC673 **Partial Differential Equations I**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MATH411; or students who have taken courses with comparable content may contact the department. Also offered as: MATH673. Credit only granted for: AMSC673 or MATH673.

Analysis of boundary value problems for Laplace's equation, initial value problems for the heat and wave equations. Fundamental solutions, maximum principles, energy methods. First order nonlinear PDE, conservation laws. Characteristics, shock formation, weak solutions. Distributions, Fourier transform.

Offered fall only. Also offered as MATH673.

0101	Matei Machedon	Seats (Total: 25)
	MWF 2:00pm - 2:50pm	MTH 0104

AMSC689 **Research Interactions in Applied Mathematics and Scientific Computation**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

The students participate in a vertically integrated (undergraduate, graduate and/or postdoctoral, faculty) research group. Format varies, but includes regular meetings, readings and presentations of material. See graduate program's online syllabus or contact the graduate program director for more information.

Contact department for information to register for this course.

AMSC714 **Numerical Methods For Stationary PDEs**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: One graduate level course in partial differential equations or one graduate level course in numerical analysis or scientific computing; or permission of instructor. Credit only granted for: AMSC 714 or AMSC 614. Formerly: AMSC614. Additional information: This course is a complement to the graduate courses MATH 673 and MATH 674 in PDEs, AMSC 666 in numerical analysis, and AMSC 660 and AMSC 661 in scientific computing.

Topics include: Maximum principle, finite difference method, upwinding, error analysis; Variational formulation of elliptic problems, inf-sup theory; The finite element method and its implementation; Piecewise polynomial interpolation theory in Sobolev spaces; A priori and a posteriori error analyses, adaptivity; Fast solvers; Variational crimes; Mixed finite element methods.

0101	Ricardo Nochetto	Seats (Total: 25)
	TuTh 5:00pm - 6:15pm	MTH 1313

AMSC760 **Applied Statistics Practicum**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Must have completed one year of graduate study in Applied Statistics. Restriction: Must have project proposal approved by SAC coordinator.

A semester long applied applied statistical project (a minimum 10 hours per week or 120 hours in total), in an internship of collaborative research-laboratory setting working on a substantive applied quantitative project with significant statistical content.

Contact department for information to register for this course.

AMSC762 **Data Analysis Project**

Credits: 1 Grading Method: Regular

Restriction: Permission of CMNS-Applied Mathematics department; and permission of instructor.

This course cannot be used to meet any of the Applied Statistics Area's seminar requirements. Offered yearly, required of and limited to MS non-thesis and doctoral students in Applied Statistics Area, for whom the resulting projects serve as a Qualifying Exam component. After 5-6 lectures or presentations on components of successful data analyses and write-ups, 3-4 sessions will discuss previous student project submissions. The culminating project, to be completed in a two week period between semesters, is an analysis and written report of one of three project choices made available each year to represent a spectrum of realistic applied statistical problems.

Contact department for information to register for this course.

AMSC799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

AMSC808A **Advanced Topics in Applied Mathematics**

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics of current interest.

Contact department for information to register for this course.

AMSC898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

AMSC899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

AMST American Studies Fall 2018

AMST101 **Introduction American Studies**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HO, D General Education: DSHU, DVUP

Credit only granted for: AMST101 or AMST201. Formerly: AMST201.

Introduces students to the interdisciplinary field of American Studies by examining concepts such as culture, identity, cultural practices, and globalization, as well as theories underlying these concepts. Engages key themes, especially constructions of difference and identity, cultures of everyday life, and America and the world.

0101	Christina Sessoms MWF 9:00am - 9:50am	Seats (Total: 25) KEY 0125
0201	Christina Sessoms MWF 1:00pm - 1:50pm	Seats (Total: 25) KEY 0126

0301	Hazim Abdullah-Smith TuTh 8:00am - 9:15am	Seats (Total: 25) KEY 0120	
0401	Brienne Adams TuTh 12:30pm - 1:45pm	Seats (Total: 25) JMP 1202	
FCH1	Hazim Abdullah-Smith F 10:00am - 11:15am Class time/details on ELMs *Restricted to students in Freshmen Connection.*	Seats (Total: 27) ARC 1101 ONLINE	Discussion
FCH2	Brienne Adams Tu 6:00pm - 7:15pm Class time/details on ELMs *Restricted to students in Freshmen Connection.*	Seats (Total: 27) TLF 1103 ONLINE	Discussion

AMST202 **Cultures of Everyday Life in America**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH | General Education: DSHS

Examine the structures and patterns of everyday life in the U.S., utilizing methods such as ethnography, oral history, survey research, and textual, visual, and material cultural analysis.

0101	Robert Jiles MWF 10:00am - 10:50am	Seats (Total: 25) KEY 0116	

AMST203 **Popular Culture in America**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO | General Education: DSHU, DVUP

An introduction to American popular culture, its historical development, and its role as a reflection of and influence on our culture and society.

0101	Robert Jiles MWF 11:00am - 11:50am	Seats (Total: 25) KEY 0116	
FCH1	A Anthony F 1:00pm - 2:15pm Class time/details on ELMs *Restricted to students in Freshman Connection.*	Seats (Total: 25) ASY 3203 ONLINE	Discussion

FCH2	A Anthony F 11:30am - 12:45pm Class time/details on ELMs *Restricted to students in Freshmen Connection.*	Seats (Total: 25) KNI 1103 ONLINE	Discussion

AMST204 **Film and American Culture Studies**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO | General Education: DSHU, DVUP

Exploration of the American film from a historical perspective, illustrating the motion picture's role as an institutional phenomenon, as a form of communication, and as a source of cross-cultural study.

0101	Susan Pramschufer TuTh 9:30am - 10:45am	Seats (Total: 35) HBK 0302J

AMST205 **Material Aspects of American Life**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HA | General Education: DSHU, DVUP

Historical survey of American material culture. Ways of describing and interpreting accumulated material evidence (e.g., buildings, town plans) introduced by stressing relationship between artifact and culture.

FCH1	Omar Eaton F 11:30am - 12:45pm Class time/details on ELMs *Restricted to students in Freshman Connection.*	Seats (Total: 25) ASY 3207 ONLINE	Discussion
FCH2	Omar Eaton F 1:00pm - 2:15pm Class time/details on ELMs *Restricted to students in Freshmen Connection.*	Seats (Total: 25) ASY 3207 ONLINE	Discussion

AMST289A **Shifting Sands: Constructing Cultural Mainstreams and Margins in the U.S.**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO, D | General Education: DSHS, DSHU, DVUP, SCIS

0101	Christina Hanhardt MW 2:00pm - 2:50pm F 10:00am - 10:50am	Seats (Total: 20) TYD 1102 TWS 0134	Discussion

0102	Christina Hanhardt MW 2:00pm - 2:50pm F 11:00am - 11:50am	Seats (Total: 20) TYD 1102 TWS 0134	Discussion
0103	Christina Hanhardt MW 2:00pm - 2:50pm F 1:00pm - 1:50pm	Seats (Total: 20) TYD 1102 ASY 3221	Discussion

AMST298C **Introduction to Asian American Studies**

Credits: 3 | Grading Method: Regular, Pass-Fail | CORE: SB, D | General Education: DSHS, DVUP

Also offered as AAST200. Credit granted for AAST200 or AMST298C.

0101	Terry Park TuTh 11:00am - 12:15pm	Seats (Total: 40) ASY 3207

AMST298Q **Selected Topics in American Studies; U.S. Latina/o Literature and Culture**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU, DVUP

Cultural study of a specific theme or issue involving artifacts and documents from both past and contemporary American experience.

Also offered as ENGL235. Credit granted for ENGL235 or AMST298Q.

0101	Keisha Allan MW 5:00pm - 6:15pm	Seats (Total: 30) TWS 0221

AMST328E **Perspectives on Identity and Culture; Afro-Latinx Diasporas**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Analysis of the cultural aspect of identity formation and the role of individual or community identities in cultural production. Examination of cultural texts such as film, literature, fashion, artifacts, archival records, architecture, monuments, sports, and paintings.

Also offered as USLT320. Credit only granted for AMST328E or USLT320. Examines the history of the African diaspora and the Afro-Latinx populations in the United States. Explores transnational migrations, comparative slave systems, labor, community formation, gender, sexuality, popular culture, and the changing meanings of blackness and latinidad.

0101	Nancy Mirabal	Seats (Total: 15)
	TuTh 2:00pm - 3:15pm	TWS 0328

AMST328F **Perspectives on Identity and Culture; Public Interpretations of African American History**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Analysis of the cultural aspect of identity formation and the role of individual or community identities in cultural production. Examination of cultural texts such as film, literature, fashion, artifacts, archival records, architecture, monuments, sports, and paintings.

Also offered as AASP398V and HIST329J. Credit only granted for HIST329J or AASP393V or AMST328F. This course analyzes public interpretations of African American history, considering the ways in which museums, historic sites, films, children's books, social media, and public school lesson plans have interpreted African American history. Students will also learn the core themes of public history such as shared authority, memory, ethical frameworks, and the practice of history in public spaces.

0101	Felicia Jamison	Seats (Total: 25)
	MW 3:30pm - 4:45pm	TLF 2103

AMST328J **Perspectives on Identity and Culture; Filipino American History and Biography**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHS, DVUP

Analysis of the cultural aspect of identity formation and the role of individual or community identities in cultural production. Examination of cultural texts such as film, literature, fashion, artifacts, archival records, architecture, monuments, sports, and paintings.

Also offered ad AAST398D. Credit granted for AAST398D or AMST328J. Focus is placed on Filipino American experiences with an emphasis on identity, community building and organizing to influence public policy We will cover pertinent events from the US and Philippine history in order to understand the impact of colonialism, migration, immigration and assimilation on Filipino Americans.

0101	Gemirald Daus	Seats (Total: 35)
	Tu 5:00pm - 7:45pm	ASY 3207

AMST340 **Introduction to History, Theories and Methods in American Studies**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Must have completed AMST201; and 2 courses in AMST. Restriction: Must be in American Studies program; and sophomore standing or higher.

Introduction to the process of interdisciplinary research, including research literatures, questions, first-hand sources and library and analytic methods in American Studies. Each student will craft a prospectus for original research.

0101	Asim Ali MWF 2:00pm - 2:50pm	Seats (Total: 20) TWS 0134
0201	Asim Ali MW 11:00am - 12:15pm	Seats (Total: 15) TWS 0134

AMST386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Restriction: Permission of ARHU-American Studies department; and junior standing or higher.

0401	Mary Sies Contact instructor or department for details.	Seats (Total: 10)

AMST388 **Honors Thesis**

(Perm req)

Credits: 3 Grading Method: Regular

Individual research, thesis and oral defense. The research project will be conducted under the supervision of a faculty member.

Contact department for information to register for this course.

AMST398 **Independent Studies**

(Perm req)

Credits: 1-3 Grading Method: Regular

Provides the student with the opportunity to pursue independent, interdisciplinary research and reading in specific areas of American culture studies.

Contact department for information to register for this course.

AMST418H **Cultural Themes in America; Cultural Themes in America-Honors**

(Perm req)

Credits: 3 Grading Method: Regular

Examination of structure and development of American culture through themes such as "growing up American," "culture and mental disorders," "race," "ethnicity," "regionalism," "landscape," and "humor."

Prerequisite: At least three credit hours of prior coursework in AMST.

Contact department for information to register for this course.

AMST428B **American Cultural Eras: American Film Culture in the 1960s**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Investigating the interaction between the film medium and an era of significant cultural change, the course will emphasize: 1) institutional factors; 2) Hollywood genres; 3) documentaries and experimental observation and reform.

Also offered as THET408B and WMST428K. Credit only granted for AMST428B, THET408B, or WMST428K. In this course we will examine an array of performance texts in an effort to understand how Blackness represented in U.S. popular culture. The course will aim to deconstruct stereotypes of Blackness in the U.S and African diaspora while focusing specifically on it relations to and intersections with gender and sexuality. We will investigate how Black people are portrayed and represented in history, literature, and popular culture and challenge the notion of essential or authentic Blackness. Throughout the course, we will engage various theories of performance and identity and explore race, gender and sexuality as constructed categories.

0101	Tabitha Chester	Seats (Total: 12)
	F 1:00pm - 3:30pm	PAC 1815

AMST428R **American Cultural Eras**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Investigation of a decade, period, or generation as a case study in significant social change within an American context. Case studies include "Antebellum America, 1840-1860" and "American culture in the Great Depression."

Also offered as THET408F. Credit only granted for AMST428R or THET408F. Using an expansive exploration of performance art as a guide, this seminar will introduce students to the theoretical and methodological paradigms that define performance studies as a field. Particular attention will be given to the blurring of art and life, the politics of identity and representation, and the strategies of creative activism.

0101	James Harding	Seats (Total: 15)
	TuTh 2:00pm - 3:15pm	PAC 1809

AMST450 **Seminar in American Studies**

(Perm req)

Credits: 3 Grading Method: Regular CORE: CS General Education: DSSP

Prerequisite: AMST201 and AMST340; and 1 course in AMST. Restriction: Senior standing; and must be in American Studies program.

Developments in theories and methods of American Studies scholarship, with emphasis upon interaction between the humanities and the social sciences in the process of cultural analysis and evaluation.

Developments in theories and methods of American Studies scholarship, with emphasis upon interaction between the humanities and the social sciences in the process of cultural analysis and evaluation.

0201	La Marr Bruce	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	TWS 0134

AMST498C **Special Topics in American Studies; Central Americans and the United States: Culture, Politics, and Community**

Credits: 3 Grading Method: Regular

Topics of special interest.

Also offered as USLT498D. Credit granted for USLT498D or AMST498C.

0101	Robert Chester	Seats (Total: 25)
	TuTh 2:00pm - 3:15pm	TWS 0134

AMST498E **Special Topics in American Studies; Race and Reproduction**

Credits: 3 Grading Method: Regular

Topics of special interest.

Also offered as AASP499C, SOCY498F, and WMST428C. Credit only granted for AASP499C, AMST498E, SOCY498F, or WMST428C.

0101	Sangeetha Madhavan	Seats (Total: 35)
	W 2:00pm - 4:30pm	ASY 3203

AMST498L **Special Topics in American Studies; Native Americans and U.S. Cinema**

Credits: 3 Grading Method: Regular

Topics of special interest.

0101	Robert Chester	Seats (Total: 35)
	TuTh 9:30am - 10:45am	TWS 0134

AMST498Q **Special Topics in American Studies; Asian American Psychology**

Credits: 3 Grading Method: Regular

Topics of special interest.

Also offered as AAST498J and PSYC489Z. Credit only granted for AAST498J, AMST498Q, or PSYC489Z. This course provides students with an understanding of the ecological influences on Asian American psychological well-being. It begins with the individual, covering topics relating to various social identities pertaining to Asian Americans. Moving outward, it highlights family and peer relationships. At the community and cultural level, the course focuses on the process of migration and acculturation. Finally, it concludes with a discussion of social advocacy, service provisions and cultural competency. Also offered as AAST498J. Credit granted for AMST498Q or AAST498J.

0101	Xiaofang Wang Lanterman	Seats (Total: 25)
	TuTh 2:00pm - 3:15pm	JMZ 1215

AMST498W **Special Topics in American Studies; Globalization and the Diversifying US**

Credits: 3 Grading Method: Regular

Topics of special interest.

Also offered as USLT498N and IMMR419J. Credit granted for USLT498N, AMST498W, or IMMR419J. Prerequisite: At least three credit hours of prior coursework in AMST.

0101	Jacqueline Partida	Seats (Total: 35)
	TuTh 9:30am - 10:45am	SQH 1101

AMST601 **Introductory Theories and History in American Studies**

Credits: 3 Grading Method: Regular

Restriction: Must not be a Graduate Advanced Special Student.

Explores the formative literature, theories, research approaches, and history of American Studies.

0101	Jan Padios	Seats (Total: 15)
	M 4:00pm - 6:40pm	TWS 0134

AMST628T **Seminar in American Studies; Queer Theories**

Credits: 3 Grading Method: Regular, Audit

Examines queer theory as both a specific set of philosophical and literary-critical approaches as well as a broader mode of critique that has emerged out of diverse intellectual, activist, and cultural contexts. At the core of the class is an examination of the pressure queer places on identity, normativity, and liberalism. This includes looking at the relationship between queer theory and lesbian, gay, bisexual, and transgender identities; adopting an intersectional approach to the study of norms; and tracing theories of the self and the group. The class includes both foundational and new scholarship from across the inter-disciplines.

0101	Christina Hanhardt	Seats (Total: 15)
	Tu 4:00pm - 6:40pm	TWS 0134

AMST655 **Introduction to Museum Scholarship**

Credits: 3 Grading Method: Regular, Audit

Also offered as: HIST610, ANTH655. Credit only granted for: AMST655, ANTH655, or HIST610.

Provides students a basic understanding of museums as cultural and intellectual institutions. Topics include the historical development of museums, museums as resources for scholarly study, and the museum exhibition as medium for presentation of scholarship.

0101	Ricardo Punzalan	Seats (Total: 15)
	M 1:00pm - 3:45pm	SYM 0215

AMST698 **Directed Readings in American Studies**

(Perm req)

Credits: 3 Grading Method: Regular

This course is designed to provide students with the opportunity to pursue independent, interdisciplinary research and reading in specific aspects of American culture under the supervision of a faculty member.

Contact department for information to register for this course.

AMST798 **Non-Thesis Research**

Credits: 1-3 Grading Method: Regular, Audit

Contact department for information to register for this course.

AMST799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

AMST856 **Museum Research Seminar**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: AMST655. Also offered as: ANTH856, HIST810. Credit only granted for: AMST856, HIST810, or ANTH856.

A research seminar focusing on the practice and presentation of cultura and historical scholarship in museums and historical sites. Students will complete an original research project on the challenges and opportunities of public exhibition and interpretation of cultural and historical research.

0101	Mary Sies W 4:00pm - 6:40pm	Seats (Total: 15) TWS 0134

AMST857 **Museum Scholarship Practicum**

Credits: 3 Grading Method: Regular

Prerequisite: AMST856; and permission of Museum Scholarship Program required. Also offered as: ANTH857, HIST811. Credit only granted for: AMST857, ANTH857, or HIST811.

Students devise and carry out a research program using the collections at the Smithsonian Institution or some other cooperating museum, working under joint supervision of a museum professional and a university faculty member.

0101	Mary Alexander Contact instructor or department for details.	Seats (Total: 3)
0401	Mary Sies Contact instructor or department for details.	Seats (Total: 2)

AMST878A **American Studies Pedagogy Mentoring; Mentoring for First Year Teaching in American Studies**

(Perm req)

Credits: 1-3 Grading Method: Sat-Fail

This course provides graduate teaching assistants with a structured approach to pedagogical content, techniques, and collaborative practices that they learn and then can use throughout their careers. It also commits a core faculty member to teaching pedagogy and makes it possible for the course to become a formal part of one's load.

Prerequisite: permission of department and must be a current AMST teaching assistant.

0101	Jan Padios Contact instructor or department for details.	Seats (Total: 5)

AMST878B **American Studies Pedagogy Mentoring; Mentoring for Second Year Teaching in American Studies**

(Perm req)

Credits: 1-3 Grading Method: Sat-Fail

This course provides graduate teaching assistants with a structured approach to pedagogical content, techniques, and collaborative practices that they learn and then can use throughout their careers. It also commits a core faculty member to teaching pedagogy and makes it possible for the course to become a formal part of one's load.

Prerequisite: permission of department and must be a current AMST teaching assistant.

0101	Jan Padios	Seats (Total: 5)
	Contact instructor or department for details.	

AMST878C **American Studies Pedagogy Mentoring; Mentoring for Third Year Teaching in American Studies**

(Perm req)

Credits: 1-3 Grading Method: Sat-Fail

This course provides graduate teaching assistants with a structured approach to pedagogical content, techniques, and collaborative practices that they learn and then can use throughout their careers. It also commits a core faculty member to teaching pedagogy and makes it possible for the course to become a formal part of one's load.

Prerequisite: permission of department and must be a current AMST teaching assistant.

0101	Jan Padios	Seats (Total: 5)
	Contact instructor or department for details.	

AMST898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

AMST899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

ANSC Animal Science Fall 2018

The following courses may involve the use of animals. Students who are concerned about the use of animals in teaching have the responsibility to contact the instructor, prior to course enrollment, to determine whether animals are to be used in the course, whether class exercises involving animals are optional or required and what alternatives, if any, are available.

ANSC101 **Principles of Animal Science**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

A comprehensive overview of the application of biology in the care and use of animals that live in close association with humans including food animals, companion animals, lab animals, zoo animals, etc. The role of science in modern food production using animals will be emphasized.

0101	Sarah Balcom MWF 1:00pm - 1:50pm	Seats (Total: 225) ESJ 0224	

ANSC103 **Principles of Animal Science Laboratory**

Credits: 1 Grading Method: Regular

Prerequisite: Must have completed or be concurrently enrolled in ANSC101. Restriction: Must be in one of the following programs (Environmental Sci & Pol-Environment & Agriculture; Agricultural and Veterinary Medicine; Agricultural Science and Technology) ; or must be in a major within the AGNR-Animal & Avian Sciences department; or permission of department required for students in other College of AGNR programs.

Laboratory focusing on the application of biology in the care and use o animals that live in close association with humans including food animals, companion animals, lab animals, zoo animals, etc. Labs will include live animals. Offered in fall semester only.

Students must pay a $50.00 laboratory materials fee.

0101	Robert Peters M 3:00pm - 4:50pm	Seats (Total: 24) ANS 1144	Lab
0201	Robert Peters Tu 2:00pm - 3:50pm	Seats (Total: 24) ANS 1144	Lab
0301	Robert Peters F 10:00am - 11:50am	Seats (Total: 24) ANS 1144	Lab
0401	Robert Peters Th 2:00pm - 3:50pm	Seats (Total: 24) ANS 1144	Lab

0501	Robert Peters W 3:00pm - 4:50pm	Seats (Total: 24) ANS 1144	 Lab
0601	Robert Peters M 10:00am - 11:50am	Seats (Total: 24) ANS 1144	 Lab
0701	Robert Peters W 10:00am - 11:50am	Seats (Total: 15) ANS 1144	 Lab

ANSC204 **Anatomy of Domestic Animals**

Credits: 2 Grading Method: Regular

Prerequisite: ANSC101 and ANSC103. And BSCI105; or (BSCI170 and BSCI171). Corequisite: ANSC205. Restriction: Must be in one of the following programs (Environmental Sci&Pol-Wildlife Resources & Cons; Animal Sciences: Animal Care & Management; Animal Sciences: Equine Studies; Animal Sciences: Laboratory Animal Care; Animal Sciences: Sciences/Preprofessional; Animal Sciences: Animal Biotechnology; Agricultural and Veterinary Medicine). Credit only granted for: ANSC211 or ANSC204 AND ANSC205. Formerly: ANSC211.

Covering the anatomy of major species of domestic animals. Utilizes a systemic approach to provide a general knowledge of both gross and microscopic mammalian structure. Comparative differences between the major domestic species are covered.

0101	Angela Black MW 2:00pm - 2:50pm	Seats (Total: 88) ANS 0408	

ANSC205 **Anatomy of Domestic Animals Laboratory**

Credits: 2 Grading Method: Regular

Prerequisite: ANSC101 and ANSC103. And BSCI105; or (BSCI170 and BSCI171). Corequisite: ANSC204. Restriction: Must be in one of the following programs (Environmental Sci&Pol-Wildlife Resources & Cons; Animal Sciences: Animal Care & Management; Animal Sciences: Equine Studies; Animal Sciences: Laboratory Animal Care; Animal Sciences: Sciences/Preprofessional; Animal Sciences: Animal Biotechnology; Agricultural and Veterinary Medicine). Credit only granted for: ANSC211 or ANSC204 and ANSC205. Formerly: ANSC211.

A regional approach is taken to study the gross anatomy of major domestic species in the laboratory portion of this course.

Students must pay a $50.00 laboratory materials fee.

0101	Angela Black Tu 9:00am - 12:00pm	Seats (Total: 22) ANS 0108	 Lab

0102	Angela Black Tu 1:00pm - 4:00pm	Seats (Total: 22) ANS 0108	 Lab
0103	Angela Black Th 9:00am - 12:00pm	Seats (Total: 22) ANS 0108	 Lab
0104	Angela Black Th 1:00pm - 4:00pm	Seats (Total: 22) ANS 0108	 Lab

ANSC220 **Livestock Management**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ANSC101 and ANSC103.

Management of meat animals including beef, sheep, and swine. This cours will emphasize obtaining optimal efficiency of production through the integration of leading edge breeding, feeding, management, and marketing practices.

0101	R Apter TuTh 11:00am - 12:15pm	Seats (Total: 40) ANS 0408

ANSC252 **Introduction to the Diseases of Wildlife**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI105; or (BSCI170 and BSCI171); or permission of AGNR-Animal & Avian Sciences department; or students who have taken courses with comparable content may contact the department.

The principal diseases of North American wildlife will be briefly considered. For each disease, specific attention will be given to the following: signs evidenced by the affected animal or bird, causative agent, means of transmission and effects of the disease on the population of the species involved.

Offered fall only.

0101	Cindy Driscoll M 4:00pm - 5:50pm M 6:00pm - 6:50pm	Seats (Total: 80) ANS 0408 ANS 0408	 Discussion

ANSC255 **Introduction to Aquaculture**

Credits: 3 Grading Method: Regular General Education: DSSP

Prerequisite: ANSC101 and ANSC103; or must have completed an introductory biology course.

Introduces the art and science of rearing aquatic animals and the essential principles of aquaculture. Students receive hands-on training in the methods required for successful husbandry and management of aquatic animals in their water environment.

0101	Daniel Theisen	Seats (Total: 20)
	TuTh 11:00am - 12:50pm	ANS 1144

ANSC314 **Comparative Animal Nutrition**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ANSC101 and ANSC103; and (CHEM231 or PLSC275).

The fundamental role and implications of dietary preference, gastrointestinal physiology and nutrients in animal nutrition. Biochemical roles of nutrients in metabolism, digestion, absorption and assimilation as it relates to various life processes.

Offered fall only.

0101	Nishanth Sunny	Seats (Total: 88)
	MWF 9:00am - 9:50am	ANS 0408

ANSC330 **Equine Science**

Credits: 3 Grading Method: Regular

Prerequisite: ANSC232; or permission of instructor. Recommended: ANSC212 and ANSC211. Credit only granted for: ANSC230 or ANSC330. Formerly: ANSC230.

Scientific principles of horse behavior, anatomy, physiology, locomotion, nutrition, reproduction, growth, health and disease as applied to horses are emphasized.

Offered fall only. Students must pay a $50.00 laboratory materials fee.

0101	R Apter	Seats (Total: 28)	
	MW 10:00am - 10:50am	ANS 0402	
	W 3:00pm - 4:50pm	ANS 0108	Lab

ANSC359 **Internship Experience in Animal and Avian Sciences**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail General Education: DSSP

Experiential learning is a key component in an animal science education. Through the internship program, you will have the opportunity to develop your expertise in a specific species and discipline within the animal science curriculum. You will arrange an on- or off-campus internship experience related to animal science. You will spend a specified number of hours at the internship site each week and attend biweekly classroom sessions where we will discuss how the study of animal science fits into your specific internship experience as well as understand how to achieve each of the course learning outcomes.

Prerequisite: ANSC220, ANSC232, ANSC242, ANSC250, ANSC255, ANSC260, or ANSC262.
Restriction: Must be in a major within the AGNR-Animal & Avian Sciences department; and permission of instructor.

0101	Monica VanKlompenberg Tu 3:30pm - 5:30pm	Seats (Total: 20) ANS 0402

ANSC379 **Animal Science Undergraduate Teaching Assistant Seminar**

(Perm req)

Credits: 2 Grading Method: Regular

Seminar course for undergraduate teaching assistants within ANSC.

0101	Sarah Balcom W 12:00pm - 12:50pm Contact instructor or department for details.	Seats (Total: 15) ANS 1408

ANSC388 **Honors Thesis Research**

Credits: 3-6 Grading Method: Regular

Undergraduate honors thesis research conducted under the direction of an AGNR faculty member in partial fulfillment of the requirements of the College of AGNR Honors Program. The thesis will be defended to a faculty committee.

0701	Chad Stahl Contact instructor or department for details.	Seats (Total: 5)
1901	William Stricklin Contact instructor or department for details.	Seats (Total: 5)
2501	Richard Kohn Contact instructor or department for details.	Seats (Total: 5)
5201	Amy Burk Contact instructor or department for details.	Seats (Total: 5)

ANSC389 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Contact department for information to register for this course.

ANSC399 **Special Problems in Animal Science**

(Perm req)

Credits: 1-2 Grading Method: Regular, Pass-Fail, Audit

Work assignments are designed to be proportional to the amount of credit. Students are expected to develop an abstract, fact sheet, manuscript, oral presentation, poster, webpage, journal-log, or other scholarly product associated with their study and/or project.

Contact department for information to register for this course.

ANSC410 **The Gut Microbiome and its Roles in Health and Disease**

Credits: 3 Grading Method: Regular

Prerequisite: BSCI223, ANSC212, ANSC327, EPIB301, BSCI222, BSCI421, or NFSC430; or students who have taken courses with comparable content may contact the department. Credit only granted for: ANSC489M or ANSC410. Formerly: ANSC489M.

A comprehensive perspective of the role of gut microbiome/microflora in nutrition, metabolism, disease prevention and health issues including farm animal health and food value, and human gastrointestinal health and immunity.

0101	Debabrata Biswas	Seats (Total: 22)
	TuTh 9:30am - 10:45am	ANS 0402

ANSC417 **Regulatory Issues in Animal Care and Management**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ANSC220, ANSC232, ANSC242, ANSC250, ANSC255, ANSC260, ANSC262, or ANSC282; or permission of instructor. Additional information: Field trips may be required for this course.

A study of regulatory issues affecting animal care and management in the livestock industry. Guest speakers and classroom discussions will focus on key topics including animal welfare, feed and drug regulations, animal identification, CAFO management, processing and marketing of animal products.

0101	Monica VanKlompenberg	Seats (Total: 20)
	TuTh 12:30pm - 1:45pm	ANS 0402

ANSC446 **Physiology of Mammalian Reproduction**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ANSC212 or BSCI440.

Anatomy and physiology of reproductive processes in domesticated and wild mammals.

0101	Bhanu Telugu	Seats (Total: 80)
	TuTh 2:00pm - 3:15pm	ANS 0408

ANSC447 **Physiology of Mammalian Reproduction Laboratory**

(Perm req)

Credits: 1 Grading Method: Regular

Prerequisite: Must have completed or be concurrently enrolled in ANSC446.

Gross and micro-anatomy, artificial insemination, estrous cycle synchronization and invitro-fertilization procedures and analytical techniques useful in animal management and reproduction.

Students must pay a $50.00 laboratory materials fee.

0101	Bhanu Telugu	Seats (Total: 30)	
	F 1:00pm - 2:50pm	ANS 0108	Lab

ANSC450 **Animal Breeding Plans**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ANSC101; and 1 course with a minimum grade of C- from (MATH120, MATH130, MATH136, MATH140). Restriction: Junior standing or higher.

Design of animal breeding programs for the genetic improvement of livestock and companion animal species. Principles of population and quantitative genetics. Genetic evaluations of animals, selection strategies and crossbreeding systems. Incorporation of statistics and biotechnology into animal breeding plans.

0101	Monica VanKlompenberg	Seats (Total: 35)
	MWF 12:00pm - 12:50pm	ANS 0412

ANSC455 **Applied Animal Behavior**

Credits: 3 Grading Method: Regular

Prerequisite: ANSC101 and ANSC103; or BSCI106; or (BSCI160 and BSCI161).

Principles of animal behavior applied to production systems in animal agriculture.

Offered fall only.

0101	R Apter	Seats (Total: 55)	
	MW 11:00am - 11:50am	ANS 0408	
	F 11:00am - 12:50pm	ANS 0408	Lab

ANSC489 **Current Topics in Animal Science**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Examination of current developments in the animal sciences.

Contact department for information to register for this course.

ANSC660 **Poultry Literature**

Credits: 1-4 Grading Method: Regular, Audit

Readings on individual topics are assigned. Written reports required. Methods of analysis and presentation of scientific material are discussed.

Contact department for information to register for this course.

ANSC688M **Special Topics; The Gut Microbiome and its Rolese in Health and Disease**

Credits: 3 Grading Method: Regular, Audit

Lectures, experimental courses, and other special subjects in the fields of animal sciences and veterinary medicine.

0101	Debabrata Biswas	Seats (Total: 8)
	TuTh 9:30am - 10:45am	ANS 0402

ANSC698C **Seminar; Recent Advances in Animal and Avian Sciences**

Credits: 1 Grading Method: Regular, Audit

Students are required to prepare papers based upon current scientific publications relating to animal science, or upon their research work, for presentation before and discussion by the class; (1) recent advances; (2) nutrition; (3) physiology; (4) biochemistry.

0101	Richard Kohn	Seats (Total: 25)	
	Tu 3:30pm - 5:30pm	ANS 0408	

ANSC698D **Seminar; Developing Presentation Skills**

Credits: 1 Grading Method: Regular, Audit

Students are required to prepare papers based upon current scientific publications relating to animal science, or upon their research work, for presentation before and discussion by the class; (1) recent advances; (2) nutrition; (3) physiology; (4) biochemistry.

0101	Richard Kohn	Seats (Total: 12)	
	Tu 3:30pm - 5:30pm	ANS 0408	
	Th 3:30pm - 4:30pm	ANS 0408	Discussion

ANSC699 **Special Problems in Animal Science**

(Perm req)

Credits: 1-2 Grading Method: Regular, Audit

Work assigned in proportion to amount of credit. Prerequisite: approval of staff. Problems will be assigned which relate specifically to the character of work the student is pursuing.

Contact department for information to register for this course.

ANSC799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

ANSC898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

ANSC899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

ANTH Anthropology Fall 2018

ANTH210 **Introduction to Medical Anthropology and Global Health**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, DVUP

An introduction to the central concepts in medical anthropology and the anthropology of global health. This course is a survey of anthropological notions of health, disease, and the body in cross-cultural and global contexts, including classic and contemporary texts. It will provide an examination of systems of knowledge and practice with regard to illness, healing, and global health inequities.

0101	Andrea Lopez TuTh 12:30pm - 1:20pm F 10:00am - 10:50am	Seats (Total: 20) MMH 1400 PLS 1184	Discussion
0102	Andrea Lopez TuTh 12:30pm - 1:20pm F 11:00am - 11:50am	Seats (Total: 20) MMH 1400 PLS 1184	Discussion
0103	Andrea Lopez TuTh 12:30pm - 1:20pm F 12:00pm - 12:50pm	Seats (Total: 20) MMH 1400 PHY 4222	Discussion
0104	Andrea Lopez TuTh 12:30pm - 1:20pm F 1:00pm - 1:50pm	Seats (Total: 20) MMH 1400 PHY 4222	Discussion
0105	Andrea Lopez TuTh 12:30pm - 1:20pm F 2:00pm - 2:50pm	Seats (Total: 20) MMH 1400 WDS 1131	Discussion
0106	Andrea Lopez TuTh 12:30pm - 1:20pm F 3:00pm - 3:50pm	Seats (Total: 20) MMH 1400 WDS 1131	Discussion

ANTH221 **Introduction to Forensic Sciences**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

Credit only granted for: ANTH298A or ANTH221. Formerly: ANTH298A.

Provides a brief history of forensic sciences, an introduction to some of the techniques used, and a demonstration of some of the applications of forensic sciences. A survey course designed to give the student some exposure to the kinds of scientific knowledge and techniques applied to the medico-legal investigation of death and other crimes.

FC01	Erin Guthrie TuTh 6:00pm - 7:15pm *Restricted to students in Freshman Connection.*	Seats (Total: 24) JMZ 2117	

ANTH240 **Introduction to Archaeology**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB, D | General Education: DSHS, DVUP

Exploration of the variety of past human societies and cultures through archaeology, from the emergence of anatomically modern humans to the more recent historical past.

0101	George Hambrecht TuTh 11:00am - 12:15pm	Seats (Total: 75) SHM 2102	
0201	Daniel Contreras MW 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 20) CHM 2201 SQH 1123	Discussion
0202	Daniel Contreras MW 11:00am - 11:50am F 12:00pm - 12:50pm	Seats (Total: 20) CHM 2201 SQH 1123	Discussion
0203	Daniel Contreras MW 11:00am - 11:50am F 1:00pm - 1:50pm	Seats (Total: 20) CHM 2201 SQH 1123	Discussion
FC01	James Gibb MW 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 39) SQH 1103	

ANTH260 **Introduction to Sociocultural Anthropology and Linguistics**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB, D | General Education: DSHS, DVUP

Culture and social relationships in a wide variety of settings from small-scale to complex societies. An overview of how anthropology analyzes human behavior. Particular attention to the relationship between language and culture.

0201	Yancey Orr MW 1:00pm - 1:50pm F 1:00pm - 1:50pm	Seats (Total: 20) PLS 1130 CHE 2116	Discussion

0202	Yancey Orr MW 1:00pm - 1:50pm F 2:00pm - 2:50pm	Seats (Total: 20) PLS 1130 CHE 2116	Discussion
0203	Yancey Orr MW 1:00pm - 1:50pm F 3:00pm - 3:50pm	Seats (Total: 20) PLS 1130 CHE 2116	Discussion
FC01	Jana Kopelentova Rehak MW 6:00pm - 7:15pm *Restricted to students in Freshmen Connenction.*	Seats (Total: 35) WDS 1114	

ANTH263 **Sexuality and Culture**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, DVUP

Credit only granted for: ANTH298K or ANTH263. Formerly: ANTH298K.

An overview of sexuality from an anthropological perspective, looking at aspects of sexuality within our own culture and in cultures around the world. Course topics include the biology and culture of sex, gender, physical attraction, sexual orientation, marriage and mating taboos, fertility control, sexually transmitted diseases, and commercial aspects of sex.

FCH1	Jeanne Hanna Tu 6:00pm - 7:15pm Class time/details on ELMs *Restricted to students in Freshmen Connection.*	Seats (Total: 35) AJC 2121 ONLINE	

ANTH265 **Anthropology of Global Health**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS, DVUP, SCIS

An overview of the growing field of global health including health care systems, medical practices, ideas about illness in cross-cultural contexts, issues of health development, global health inequity, and human rights issues. The course will focus on the history of global health, the critique of major international health agencies and their development paradigms, and the political economy of social inequalities and health.

FCH1	Gwynne Jenkins	Seats (Total: 39)	
	Tu 7:30pm - 8:45pm Class time/details on ELMs	KEY 0126 ONLINE	Discussion
	Restricted to students in Freshman Connection. Class time/details on ELMS Online Discussion		

ANTH266 **Changing Climate, Changing Cultures**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS, DVCC, SCIS

Explore past, present, and future interactions between humans and climate. Discussions, methods-oriented activities, and case study analyses provide students a foundation for appreciating the role of anthropology in understanding, responding to, and preparing for climate change.

FCH1	Jana Kopelentova Rehak	Seats (Total: 35)	
	Th 7:30pm - 8:45pm Class time/details on ELMs	KEY 0103 ONLINE	
	Restricted to students in Freshmen Connection.		

ANTH305 **Archaeological Methods and Practice**

Credits: 3 | Grading Method: Regular | General Education: DSHS

Prerequisite: ANTH240, ARTH200, or CLAS180. Also offered as: ARTH305, CLAS305. Credit only granted for: ANTH305, ARTH305, or CLAS305.

A team-taught, interdisciplinary course discussing theories, methods, and ethical issues in the practice of archaeology.

For Fall 2018: Also offered ARTH305, CLAS305, and JWST319Y. Credit will only be granted for ANTH305, ARTH305, CLAS305, or JWST319Y.

0101	Matthew Suriano	Seats (Total: 30)
	MW 2:00pm - 3:15pm	WDS 1114

ANTH322 **Method and Theory in Ecological Anthropology**

Credits: 3 | Grading Method: Regular

Prerequisite: ANTH220 or ANTH222. Restriction: Must be in a major within the BSOS-Anthropology department. Credit only granted for: ANTH320, ANTH322, ANTH425, or ANTH625.

A theoretical consideration of ecological anthropology, focusing on issues related to cooperation, the management of common property, resilience, and sustainability. Explores the methods of sociocultural anthropology, including ethnology, evolutionary game theory and agent-based modeling; and natural-science approaches including behavioral and systems ecology.

0101	L Jen Shaffer	Seats (Total: 35)
	TuTh 12:30pm - 1:45pm	PHY 1219

ANTH323 **Plagues, Pathogens and Public Policy**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, SCIS

Credit only granted for: ANTH429A or ANTH323. Formerly: ANTH429A.

The impact of diseases on populations from prehistoric times through the present will be examined, along with public perceptions of disease, scientific breakthroughs on treatment and prevention, and the ways that politics and public health policies can enhance or impede the advancement of disease treatment. The natural history of disease, population structure, and immunity will be discussed. The class will address emerging and re-emerging diseases and the ways that first responders, researchers, and policy makers may affect the outcome of an outbreak.

SG91	Marilyn London	Seats (Total: 25)
	W 9:30am - 12:00pm	BLD3 3225
	Restricted to Shady Grove PHSC students.	
SG92	Marilyn London	Seats (Total: 10)
	W 9:30am - 12:00pm	Location: TBA
	Restricted to Shady Grove CCJS students.	

ANTH341 **Introduction to Zooarchaeology**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

Credit only granted for: ANTH298D, ANTH641 or ANTH341. Formerly: ANTH298D.

Zooarchaeology is the study of animal remains, especially bones, from archaeological contexts. This course will address both methodology as well as many of the main issues in contemporary zooarchaeology. Zooarchaeology stands at the intersection of a number of social and biological sciences, such as Biology, Osteology, Ecology, History, Anthropology and Economics. We will discuss basic animal osteology and the concepts and practices behind the identification of animal remains from archaeological contexts. We will cover the nature of the data in zooarchaeology, especially issues around using proxy data.

0101	Barnet Pavao-Zuckerman TuTh 12:30pm - 1:45pm	Seats (Total: 10) TLF 0104B	

ANTH358A **Undergraduate Teaching Assistant; Undergraduate Teaching Assistant in Archaeology**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Individual instruction course: contact department or instructor to obtain section and index numbers.

Contact department for information to register for this course.

ANTH358B **Undergraduate Teaching Assistant; Undergraduate Teaching Assistant in Bio-Anthropology**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Individual instruction course: contact department or instructor to obtain section and index numbers.

Contact department for information to register for this course.

ANTH358C **Undergraduate Teaching Assistant; Undergraduate Teaching Assistant in Cultural Anthropology**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Individual instruction course: contact department or instructor to obtain section and index numbers.

Contact department for information to register for this course.

ANTH360 **Method and Theory in Sociocultural Anthropology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ANTH260. Restriction: Must be in Anthropology program; or permission of BSOS-Anthropology department.

Theoretical approaches and research methods in sociocultural anthropology. Emphasis on current debates, new directions, and their historical antecedents.

0101	Patrick Rivera MW 2:00pm - 2:50pm F 2:00pm - 2:50pm	Seats (Total: 20) LEF 1171 WDS 1114	 Discussion

ANTH380 **Culture and Discourse**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Contemporary discourse analysis and pragmatics applied to ethnographic research problems with particular attention to roots in recent linguistic anthropological work in ethnographic semantics and ethnography of speaking.

SG91	Jacqueline Messing	Seats (Total: 39)
	Th 9:30am - 12:00pm	BLD3 3206
	Restricted to Communication Majors at Shady Grove	

ANTH386 **Experiential Learning**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail

Recommended: Completion of advanced courses in relevant subfield of anthropology recommended. Restriction: Permission of BSOS-Anthropology department; and junior standing or higher; and must be in Anthropology program.

Contact department for information to register for this course.

ANTH398A **Independent Study; Research Problems**

(Perm req)

Credits: 1-3 Grading Method: Regular

Independent interdisciplinary research and reading in specific areas of anthropology.

Contact department for information to register for this course.

ANTH398C **Independent Study; The Mediterranean World**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Independent interdisciplinary research and reading in specific areas of anthropology.

Contact department for information to register for this course.

ANTH398E **Independent Study; Bodies and Burials**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Independent interdisciplinary research and reading in specific areas of anthropology.

Contact department for information to register for this course.

ANTH398G **Independent Study; Ethnicity, Race and Nationality in Europe**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Independent interdisciplinary research and reading in specific areas of anthropology.

Contact department for information to register for this course.

ANTH398H **Independent Study; Social Anthropology of Britain (Honors)**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Independent interdisciplinary research and reading in specific areas of anthropology.

Contact department for information to register for this course.

ANTH398I **Independent Study; Great Kingdoms of Ancient Near East**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Independent interdisciplinary research and reading in specific areas of anthropology.

Contact department for information to register for this course.

ANTH398J **Independent Study; Archaeology Practicum**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Independent interdisciplinary research and reading in specific areas of anthropology.

Contact department for information to register for this course.

ANTH398K **Independent Study; Archaeology of Roman Identity**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Independent interdisciplinary research and reading in specific areas of anthropology.

Contact department for information to register for this course.

ANTH398L **Independent Study; Social Anthropology of Britain**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Independent interdisciplinary research and reading in specific areas of anthropology.

Contact department for information to register for this course.

ANTH398N **Independent Study; Career Development for Anthropology Majors**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Independent interdisciplinary research and reading in specific areas of anthropology.

0101	Erik Hanson	Seats (Total: 15)
	M 1:00pm - 1:50pm	WDS 1131

ANTH407 **Anthropology and Development**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An approach to the theory and practice of international development through its transformation from humanitarian and voluntarist actions to the professionalization of aid and transformation in an important instrument of foreign policy.

0101	Christopher Hewlett	Seats (Total: 20)
	W 3:00pm - 5:45pm	JMZ 2207

ANTH412 **Hypermarginality and Urban Health**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: ANTH412 or ANTH612.

Using perspectives from medical and urban anthropology, we examine the phenomenon of hypermarginality--the clustering of extreme poverty, chronic disease, addiction, violence and trauma in certain social and spatial contexts, often urban. We will explore both the broader social, political, and economic structures of exclusion that produce hypermarginality, as well as the illness experiences associated with these conditions. As we consider both social suffering and the related institutional responses, we will also discuss the role of anthropological approaches in national discussions about health inequities.

0101	Andrea Lopez	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	WDS 1114

ANTH414 **Anthropology of Women's Health**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: ANTH414 or ANTH624.

Ethnographic and cross-cultural approaches to women's health domestically and globally, with particular attention to the ways in which morality, politics, local meanings, and the state influence women's reproductive health outcomes. Gendered, ethnic, and class dimensions that underlie patterning of disease and illness will be explored, with special attention to the long-term health effects of racism, poverty, structural violence, and sexism.

0101	Ali Heller	Seats (Total: 25)
	TuTh 2:00pm - 3:15pm	KEY 0103

ANTH441 **Archaeology of Diaspora**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ANTH240. Credit only granted for: ANTH448A, ANTH688Z, or ANTH441. Formerly: ANTH448A.

"Diaspora" is defined, theorized, deconstructed, and employed throughout the social sciences. There are context specific relations that define who leaves, when, and how they are received in the new place of settlement. Over the course of the semester the class will actively and critically examine the relevance of historical archaeology and material culture studies in the understanding of the formation, experiences, and transformation of diasporic groups over time and space.

0101	Stephen Brighton	Seats (Total: 18)
	TuTh 3:30pm - 4:45pm	WDS 1130

ANTH447 **Material Culture Studies in Archaeology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Prerequisite: ANTH240. Credit only granted for: ANTH447, ANTH448C, ANTH647, or ANTH689C. Formerly: ANTH448C.

An in-depth introduction to the world of material culture studies with focus on the methods and theories in historical archaeology. Students will look at archaeological data as historical documents, commodities and as symbols expressing ideas.

0101	Stephen Brighton	Seats (Total: 15)
	TuTh 12:30pm - 1:45pm	WDS 1130

ANTH451 **Environmental Archaeology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Credit only granted for: ANTH451, ANTH651, ANTH448F, ANTH668F. Formerly: ANTH448F.

An overview of modern environmental archaeology as a tool for the interdisciplinary investigation of past and present global change and to engage the long term past with current issues of sustainability and rapid environmental change.

0101	George Hambrecht	Seats (Total: 20)
	TuTh 2:00pm - 3:15pm	TYD 2110

ANTH452 **Anthropology and Climate Change**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ANTH220, ANTH222, ANTH240, or ANTH260. Credit only granted for: ANTH452 or ANTH652.

Human activities now influence ongoing global climatic change, and the outcome remains uncertain for communities and cultures around the world. This interaction between humans and climate provides a rich area of study for anthropologists in an interdisciplinary context. Case studies of historic and contemporary evidence will be used to understand impacts of global climate change and assess opportunities and barriers to successful responses and adaptation.

0101	L Jen Shaffer	Seats (Total: 25)
	Tu 2:00pm - 4:45pm	PHY 1201

ANTH461 **Language as Practice**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: ANTH461 or ANTH468I. Formerly: ANTH468I.

An introduction to linguistic variation and the construction of identity, relationship, and community membership through language use. The approach emphasizes language as community-based practice and examines the dynamic construction of social relations through linguistic interactions.

0101	Janet Chernela	Seats (Total: 25)
	Tu 2:00pm - 4:45pm	ASY 3203

ANTH462 **Amazon Through Film**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: ANTH468D or ANTH462. Formerly: ANTH468D.

An interdisciplinary course that utilizes film to consider the Amazon basin, its history, peoples, and landscapes through cinematic representations. The course places the films in the context of film history and critical theory. The course takes into consideration the Brazilian, North American, Mexican, European and Argentine creators of the films and their visions of Amazonia, as well as the audiences and markets to which the films are intended.

0101	Janet Chernela	Seats (Total: 31)
	Tu 6:00pm - 8:45pm	WDS 0104

ANTH476 **Senior Research**

(Perm req)

Credits: 3-4 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in Anthropology program. Credit only granted for: ANTH476 or ANTH486.

Capstone course in which students pursue independent research into a current problem in anthropology, selected with assistance of a committee of faculty. Research leads to the writing of a senior thesis in anthropology.

Contact department for information to register for this course.

ANTH477 **Senior Thesis**

(Perm req)

Credits: 3-4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ANTH476. Restriction: Permission of BSOS-Anthropology department; and must be in Anthropology program. Credit only granted for: ANTH477 or ANTH487.

Capstone course in which students write a senior thesis on independent research into a current problem in anthropology. The thesis is defined before a committee of faculty.

Contact department for information to register for this course.

ANTH485 **Honors Research Preparation**

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Permission of BSOS-Anthropology department; and must be in Anthropology program; and must be admitted to University Honors Program or Anthropology Honors Program.

Honors Research Preparation is an independent study course during which the Honors candidate will work with their Honors Thesis Advisor to establish not only the structure of the thesis and timeline, but also the formation of Thesis Review Committee.

Contact department for information to register for this course.

ANTH486 **Honors Research**

(Perm req)

Credits: 3-4 Grading Method: Regular

Restriction: Permission of BSOS-Anthropology department; and must be in Anthropology program; and must be admitted to University Honors Program or Anthropology Honors Program. Credit only granted for: ANTH486 or ANTH476.

Capstone course in which students pursue independent research into a current problem in anthropology, selected with assistance of a committee of faculty. Research leads to the writing of an honors thesis in anthropology.

Contact department for information to register for this course.

ANTH487 **Honors Thesis**

(Perm req)

Credits: 3-4 Grading Method: Regular

Prerequisite: ANTH486. Restriction: Permission of BSOS-Anthropology department; and must be in Anthropology program; and must be admitted to University Honors Program or Anthropology Honors Program. Credit only granted for: ANTH487 or ANTH477.

Capstone course in which students write a thesis on the results of independent research into a current problem in anthropology.

Contact department for information to register for this course.

ANTH601 **Applied Anthropology**

Credits: 3 Grading Method: Regular

An overview of the history and current practices of applied anthropology. This includes relationships between applied anthropology and other major subfields of the profession; the interdisciplinary and public context of applied anthropology; and problems of significance, utility, and ethics associated with applied anthropology.

Offered fall only. For ANTH majors only.

0101	Michael Paolisso	Seats (Total: 20)
	Tu 4:00pm - 6:40pm	PLS 1162

ANTH606 **Qualitative Methods in Applied Anthropology**

Credits: 3 Grading Method: Regular, Audit

An introduction to the use of ethnography and qualitative methods in applied and policy contexts. Qualitative methods discussed include informal and systematic approaches. Students undertake fieldwork in local settings to practice the qualitative methods and to develop analysis and report writing skills.

Offered fall only. Restricted to Anthropology majors only.

0101	Ali Heller	Seats (Total: 20)
	Th 4:00pm - 6:40pm	LEF 1171

ANTH607 **Anthropology and Development**

Credits: 3 Grading Method: Regular, Audit

An approach to the theory and practice of international development through its transformation from humanitarian and voluntarist actions to the professionalization of aid and transformation in an important instrument of foreign policy.

0101	Christopher Hewlett, Eduardo Fernandez	Seats (Total: 10)
	W 3:00pm - 5:45pm	JMZ 2207

ANTH612 **Hypermarginality and Urban Health**

Credits: 3 Grading Method: Regular, Audit

Also offered as: ANTH412. Credit only granted for: ANTH412 or ANTH612.

Using perspectives from medical and urban anthropology, we examine the phenomenon of hypermarginality--the clustering of extreme poverty, chronic disease, addiction, violence and trauma in certain social and spatial contexts, often urban. We will explore both the broader social, political, and economic structures of exclusion that produce hypermarginality, as well as the illness experiences associated with these conditions. As we consider both social suffering and the related institutional responses, we will also discuss the role of anthropological approaches in national discussions about health inequities.

0101	Andrea Lopez	Seats (Total: 5)
	TuTh 11:00am - 12:15pm	WDS 1114

ANTH620 **Environment and Society**

Credits: 3 Grading Method: Regular, Audit

Students will obtain foundational knowledge of core social science theories and approaches dealing with coupled natural-human systems. Key topics include: cultural models of the environment, social networks, ecological economics, political ecology, environmental justice, and science communication.

Taught at UMCP and over the Interactive Video Network (IVN). Also offered as ANTH620. Credit only granted for MEES620 or ANTH620.

0101	Michael Paolisso, William Dennison Th 2:00pm - 4:45pm	Seats (Total: 20) HJP 1213B

ANTH624 **Anthropology of Women's Health**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: ANTH414 or ANTH624.

Ethnographic and cross-cultural approaches to women's health domestically and globally, with particular attention to the ways in which morality, politics, local meanings, and the state influence women's reproductive health outcomes. Gendered, ethnic, and class dimensions that underlie patterning of disease and illness will be explored, with special attention to the long-term health effects of racism, poverty, structural violence, and sexism.

0101	Ali Heller TuTh 2:00pm - 3:15pm	Seats (Total: 10) KEY 0103

ANTH641 **Introduction to Zooarchaeology**

Credits: 3 Grading Method: Regular, Audit

Also offered as: ANTH341. Credit only granted for: ANTH298D, ANTH341 or ANTH641.

Zooarchaeology is the study of animal remains, especially bones, from archaeological contexts. This course will address both methodology as well as many of the main issues in contemporary zooarchaeology. Zooarchaeology stands at the intersection of a number of social and biological sciences, such as Biology, Osteology, Ecology, History, Anthropology and Economics. We will discuss basic animal osteology and the concepts and practices behind the identification of animal remains from archaeological contexts. We will cover the nature of the data in zooarchaeology, especially issues around using proxy data.

0101	Barnet Pavao-Zuckerman TuTh 12:30pm - 1:45pm	Seats (Total: 5) TLF 0104B

ANTH647 **Advanced Material Culture Studies in Archaeology**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: ANTH447, ANTH448C, ANTH647, or ANTH689C. Formerly: ANTH689C.

An in-depth introduction to the world of material culture studies with focus on the methods and theories in historical archaeology. Students will look at archaeological data as historical documents, commodities and as symbols expressing ideas.

0101	Stephen Brighton	Seats (Total: 2)
	TuTh 12:30pm - 1:45pm	WDS 1130

ANTH651 **Environmental Archaeology**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: ANTH448F, ANTH451, ANTH688F, or ANTH651. Formerly: ANTH688F.

An overview of modern environmental archaeology as a tool for the interdisciplinary investigation of past and present global change and to engage the long term past with current issues of sustainability and rapid environmental change.

0101	George Hambrecht	Seats (Total: 5)
	TuTh 2:00pm - 3:15pm	TYD 2110

ANTH652 **Anthropology and Climate Change**

Credits: 3 Grading Method: Regular, Audit

Also offered as: ANTH452. Credit only granted for: ANTH452 or ANTH652.

Human activities now influence ongoing global climatic change, and the outcome remains uncertain for communities and cultures around the world. This interaction between humans and climate provides a rich area of study for anthropologists in an interdisciplinary context. Case studies of historic and contemporary evidence will be used to understand impacts of global climate change and assess opportunities and barriers to successful responses and adaptation.

0101	L Jen Shaffer	Seats (Total: 10)
	Tu 2:00pm - 4:45pm	PHY 1201

ANTH655 **Introduction to Museum Scholarship**

Credits: 3 Grading Method: Regular, Audit

Also offered as: AMST655, HIST610. Credit only granted for: ANTH655, AMST655, or HIST610.

Provides students a basic understanding of museums as cultural and intellectual institutions. Topics include the historical development of museums, museums as resources for scholarly study, and the museum exhibition as medium for presentation of scholarship.

0101	Ricardo Punzalan	Seats (Total: 15)
	M 1:00pm - 3:45pm	SYM 0215

ANTH661 **Language as Practice**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: ANTH468I, ANTH461, ANTH688I, ANTH661.. Formerly: Previously offered as ANTH688I.

An introduction to linguistic variation and the construction of identity, relationship, and community membership through language use. The approach emphasizes language as community-based practice and examines the dynamic construction of social relations through linguistic interactions.

0101	Janet Chernela	Seats (Total: 10)
	Tu 2:00pm - 4:45pm	ASY 3203

ANTH688A **Current Developments in Anthropology**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Detailed investigation of a current problem or research technique, the topic to be chosen in accordance with faculty interests and student needs.

Contact department for information to register for this course.

ANTH688L **Current Developments in Anthropology; Music and Language**

Credits: 3 Grading Method: Regular, Audit

Detailed investigation of a current problem or research technique, the topic to be chosen in accordance with faculty interests and student needs.

0101	Siv Lie	Seats (Total: 12)
	M 3:30pm - 6:00pm	PAC 3110A
	Also offered as MUSC679L. Credit only granted for ANTH688L or MUSC679L.	

ANTH688Z **Current Developments in Anthropology; Archaeology of Diaspora**

Credits: 3 Grading Method: Regular, Audit

Detailed investigation of a current problem or research technique, the topic to be chosen in accordance with faculty interests and student needs.

0101	Stephen Brighton	Seats (Total: 2)
	TuTh 3:30pm - 4:45pm	WDS 1130

ANTH689A **Special Problems in Anthropology**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

ANTH701 **Anthropology Internship Preparation**

Credits: 3 Grading Method: Regular, Audit

Preparation for internship includes practicum training in development, presentation and evaluation of position papers, proposals and work plans; literature search and use of secondary data sources in decision making the effect cultural analysis and resource management; ethics and professional development for work in non-academic settings.

Contact department for information to register for this course.

ANTH712 **Anthropology Internship Analysis**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: ANTH789.

The preparation and presentation of internship results, and the development of skills in report writing and presentation. Includes the completion of a professional quality report or publishable paper based on the internship experience.

Contact department for information to register for this course.

ANTH760 **Development of Social/Cultural Theory**

Credits: 3 Grading Method: Regular, Audit

A broad perspective of the history of social cultural theory in anthropology and the critical skills needed for understanding the subdiscipline is provided. An overview of the history of theorizing about society and culture will help outline the past, present, and future of anthropology and its relations with other scientific and humanistic disciplines.

For Anth majors only.

0101	Kathryn Lafrenz Samuels	Seats (Total: 20)
	M 4:00pm - 6:40pm	JMZ 1215

ANTH788 **Internship Research**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

This course augments ANTH 789 and is graded in conjunction with it.

Contact department for information to register for this course.

ANTH789 **Internship**

(Perm req)

Credits: 3-6 Grading Method: Regular, Audit

Individual instruction course supervised by a department faculty member.

Contact department for information to register for this course.

ANTH856 **Museum Research Seminar**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: HIST610. Also offered as: HIST810, AMST856. Credit only granted for: ANTH856, AMST856, or HIST810.

A research seminar focusing on the practice and presentation of cultura and historical scholarship in museums and historical sites. Students will complete an original research project on the challenges and opportunities of public exhibition and interpretation of cultural and historical research.

0101	Mary Sies	Seats (Total: 15)
	W 4:00pm - 6:40pm	TWS 0134

ANTH857 **Museum Scholarship Practicum**

Credits: 3-6 Grading Method: Regular

Prerequisite: HIST810. Restriction: Permission of Museum Scholarship Program required. Also offered as: HIST811, AMST857. Credit only granted for: ANTH857, AMST857, or HIST811.

Students devise and carry out a research program using the collections at the Smithsonian Institution or some other cooperating museum, working under joint supervision of a museum professional and a university faculty member.

0101	Mary Alexander Contact instructor or department for details.	Seats (Total: 3)
0401	Mary Sies Contact instructor or department for details.	Seats (Total: 2)

ANTH898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

ANTH899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

AOSC Atmospheric and Oceanic Science Fall 2018

AOSC123 **Causes and Implications of Global Change**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: PS General Education: DSNS, SCIS

Also offered as: GEOL123. Credit only granted for: AOSC123, GEOG123, GEOL123, or METO123. Formerly: METO123.

Responsible policy and decision making on issues related to the global environment requires understanding of the basic scientific issues, relationships between the geophysical and biological sciences, the impacts on regional and global endeavors, and the political manner in which humans respond. This course embodies an integrated introduction to the broad scientific and social aspects of the global change problem.

0101	Melissa Kenney MW 12:00pm - 12:50pm F 12:00pm - 12:50pm	Seats (Total: 32) ATL 2416 ATL 2416	 Discussion

AOSC200 **Weather and Climate**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: PS General Education: DSNL (if taken with AOSC201), DSNS, SCIS

Prerequisite: MATH107, MATH110, or MATH115. Recommended: Concurrent enrollment in AOSC201. Formerly: METO200.

Broad survey of the state of knowledge and problems of atmospheric science. Origin and structure of the atmosphere, meteorological observations, weather maps, forecasting, satellites, energetics, wind, general circulation, storms, severe weather, climate change, air pollution.

0101	Timothy Canty TuTh 12:30pm - 1:45pm W 1:00pm - 1:50pm	Seats (Total: 30) ATL 2324 ANS 0402	Discussion
0102	Timothy Canty TuTh 12:30pm - 1:45pm W 2:00pm - 2:50pm	Seats (Total: 30) ATL 2324 ANS 0402	Discussion
0103	Timothy Canty TuTh 12:30pm - 1:45pm W 3:00pm - 3:50pm	Seats (Total: 30) ATL 2324 ANS 0402	Discussion
0104	Timothy Canty TuTh 12:30pm - 1:45pm W 2:00pm - 2:50pm *This section is restricted to students in Carillon Communities.*	Seats (Total: 25) ATL 2324 CHM 0127	Discussion
0201	Timothy Canty TuTh 2:00pm - 3:15pm W 2:00pm - 2:50pm	Seats (Total: 30) ATL 2324 ATL 2330	Discussion
0202	Timothy Canty TuTh 2:00pm - 3:15pm W 3:00pm - 3:50pm	Seats (Total: 30) ATL 2324 ATL 2330	Discussion
0203	Timothy Canty TuTh 2:00pm - 3:15pm M 1:00pm - 1:50pm	Seats (Total: 30) ATL 2324 ATL 2330	Discussion
0204	Timothy Canty TuTh 2:00pm - 3:15pm M 2:00pm - 2:50pm	Seats (Total: 30) ATL 2324 ATL 2330	Discussion

AOSC201 **Weather and Climate Laboratory**

Credits: 1 | Grading Method: Regular, Pass-Fail, Audit | CORE: PL

Corequisite: AOSC200. Formerly: METO201.

Laboratory exercises to supplement AOSC200, including weather observations, weather map analysis, use of the Internet, forecasting practice and climate modeling.

Students must pay a $60.00 laboratory materials fee.

0101	Hannah Daley Tu 3:30pm - 5:30pm	Seats (Total: 26) ATL 3426	Lab
0102	Lindsey Rodio W 10:00am - 12:00pm	Seats (Total: 26) ATL 3426	Lab
0103	Hannah Daley F 10:00am - 12:00pm	Seats (Total: 26) ATL 3426	Lab
0104	Lindsey Rodio W 4:00pm - 6:00pm	Seats (Total: 26) ATL 3426	Lab
0105	Justin Hicks M 2:00pm - 4:00pm	Seats (Total: 26) ATL 3426	Lab
0106	Justin Hicks Tu 10:00am - 12:00pm	Seats (Total: 26) ATL 3426	Lab
0107	Agniv Sengupta M 10:00am - 12:00pm	Seats (Total: 26) ATL 3426	Lab
0108	Agniv Sengupta F 2:00pm - 4:00pm	Seats (Total: 26) ATL 3426	Lab

AOSC375 **Introduction to the Blue Ocean**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Also offered as: GEOL375. Credit only granted for: GEOL375 or METO375.

Oceans are an important component of the Earth System and this course builds towards Earth System Science education. Oceanography is an intrinsically interdisciplinary subject with strong connections to astronomy (tidal forces), biology (ecosystems), geography (world climate), geology (sea floor tectonics), and physics (waves). We begin with the history of ocean exploration and origin of Earth and life and learn about properties of seawater, air-sea interactions, atmospheric and oceanic circulation, El Nino-Southern Oscillation, waves, tides, and tsunamis.

0101	Jose-Henrique Alves	Seats (Total: 23)
	TuTh 11:00am - 12:15pm	AJC 2119

AOSC400 **Physical Meteorology of the Atmosphere**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (PHYS171, PHYS161, MATH141); or permission of CMNS-Atmospheric & Oceanic Science department. Formerly: METO400.

The application of basic classical physics, chemistry and mathematics t the study of the atmosphere. Composition of the atmosphere; energy sources and sinks (radiation in the atmosphere; radiative balance and radiative forcing of atmospheric processes); atmospheric thermodynamics; clouds and precipitation physics; atmospheric electricity and optics; mesoscale processes (e.g., orographic mesoscale phenomena and instabilities); air mass boundaries; severe weather, tropical cyclones; storms; global circulation.

0101	Derrick Lampkin	Seats (Total: 32)
	TuTh 11:00am - 12:15pm	ATL 2416

AOSC420 **Physical Oceanography**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH141 and PHYS141. Recommended: AOSC200. Also offered as: AOSC670, GEOL670. Credit only granted for: AOSC420, AOSC670, or GEOL670.

Ocean observations. Water masses, sources of deep, intermediate, and surface water. Mass, heat, and salt transport, and the meridional overturning circulation. Geochemical tracers and cycles, including carbon. Western boundary currents, mixed layers, and processes maintaining the thermocline. Coastal and estuarine processes. Surface waves and tides. the ocean's role in climate.

0101	Gennady Chepurin	Seats (Total: 12)
	MW 3:15pm - 4:30pm	ATL 2416

AOSC431 **Atmospheric Thermodynamics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (PHYS171, PHYS161, MATH141). Recommended: MATH246. Credit only granted for: AOSC431 or METO431. Formerly: METO431.

Classical thermodynamics applied to both the dry and the moist atmosphere. Composition; phase changes of water; stability concepts; Properties of aerosols and clouds, cloud nucleation and precipitation processes, atmospheric electricity, cloud and precipitation chemistry.

0101	Ning Zeng TuTh 9:30am - 10:45am	Seats (Total: 25) ATL 2416
AM01	Ning Zeng TuTh 9:30am - 10:45am	Seats (Total: 1) ATL 2416

AOSC470 **Synoptic Meteorology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in AOSC431 and AOSC432. Credit only granted for: AOSC470, AOSC600, or METO600.

Atmospheric properties and observations, meteorological analysis and charts, operational numerical forecasts. Application of quasigeostrophic theory, baroclinic instability, midlatitiude and mesoscale weather systems. Tropical meteorology. Weather forecasting using numerical and statistical models. Prediction of weather phenomena on the global, syoptic, meso, and local scales. Analysis of surface and upper air data; Norwegian cyclone model; introduction to weather forecasting.

0101	Michael Erickson TuTh 5:00pm - 6:15pm	Seats (Total: 20) ATL 2416

AOSC493 **Senior Research Project I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Permission of CMNS-Atmospheric & Oceanic Science department. Restriction: Must be in Atmospheric and Oceanic Science program. Or must not be in Atmospheric and Oceanic Science program; and permission of instructor.

Technical writing and oral presentation skills. Planning, writing, and presenting a plan for research in the geosciences.

0101	Timothy Canty M 2:00pm - 3:00pm F 2:00pm - 3:30pm	Seats (Total: 10) ATL 3408 ATL 3408

AOSC494 **Atmospheric and Oceanic Science Seminar**

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in AOSC431 and AOSC432.

Exposure to a wide range of contemporary topics in atmospheric, oceanic and climate sciences, to foster research interests and promote critical thinking through the weekly AOSC departmental seminar series.

0101	Timothy Canty Th 3:30pm - 5:00pm	Seats (Total: 20) ATL 2400

AOSC499 **Special Problems in Atmospheric Science**

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Research or special study in the field of meteorology and the atmospheric and oceanic sciences.

Contact department for information to register for this course.

AOSC600 **Synoptic Meteorology I**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: AOSC610. Credit only granted for: AOSC470 or AOSC600. Formerly: METO600.

Atmospheric properties and observations, meteorological analysis and charts, operational numerical forecasts. Application of quasigeostrophic theory, baroclinic instability, midlatitude and mesoscale weather systems. Tropical meteorology.

0101	Michael Erickson TuTh 5:00pm - 6:15pm	Seats (Total: 10) ATL 2416
AM01	Michael Erickson TuTh 5:00pm - 6:15pm	Seats (Total: 1) ATL 2416

AOSC610 **Dynamics of the Atmosphere and Ocean I**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: Must have completed or be concurrently enrolled in MATH462; or students who have taken courses with comparable content may contact the department. Formerly: METO610.

Equations of motion and their approximation, scale analysis for the atmosphere and the ocean. Conservation properties. Fluid motion in the atmosphere and oceans. Circulation and vorticity, geostrophic motion and the gradient wind balance. Turbulence and Ekman Layers.

0101	Da-Lin Zhang MWF 9:00am - 9:50am	Seats (Total: 30) ATL 2428
AM01	Da-Lin Zhang MWF 9:00am - 9:50am	Seats (Total: 1) ATL 2428

AOSC614 **Atmospheric Modeling, Data Assimilation and Predictability**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: AOSC610; or permission of instructor.

Solid foundation for atmospheric and oceanic modeling and numerical weather prediction: numerical methods for partial differential equations, an introduction to physical parameterizations, modern data assimilation, and predictability.

0101	Eugenia Kalnay W 10:00am - 12:30pm	Seats (Total: 20) ATL 3400
AM01	Eugenia Kalnay W 10:00am - 12:30pm	Seats (Total: 1) ATL 3400

AOSC620 **Physics and Chemistry of the Atmosphere I**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MATH461; or students who have taken courses with comparable content may contact the department. Formerly: METO620.

Air parcel thermodynamics and stability; constituent thermodynamics and chemical kinetics. Cloud and aerosol physics and precipitation processes.

0101	Zhanqing Li TuTh 2:00pm - 3:15pm	Seats (Total: 25) ATL 2416
AM01	Zhanqing Li TuTh 2:00pm - 3:15pm	Seats (Total: 1) ATL 2416

AOSC652 **Analysis Methods in Atmospheric and Oceanic Science**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: PHYS141 and MATH241; or students who have taken courses with comparable content may contact the department. Recommended: AMSC460, CMSC660, AMSC660, or CMSC460.

A variety of the analysis methods used by atmospheric and oceanic scientists will be applied to observational data sets such as Vostok ice core record, temperature trends, and satellite measurements of ozone,sea ice, etc. in a hands-on, computer laboratory setting. Students will be exposed to Fortran and Python as well as modern file formats such as HDF and netCDF. No prior programming experience required.

0101	Jeffrey Henrikson MWF 12:45pm - 1:50pm	Seats (Total: 24) ATL 3426
AM01	Jeffrey Henrikson MWF 12:45pm - 1:50pm	Seats (Total: 1) ATL 3426

AOSC658E **Special Topics in Meteorology; Data Assimulation**

Credits: 3 Grading Method: Regular, Audit

Various special topics in meteorology are given intensive study. The topic of concentration varies, from semester to semester and depends on student and faculty interests. Often, specialists from other institutions are invited to the campus on a visiting lectureship basis to conduct the course.

Contact department for information to register for this course.

AOSC658N **Special Topics in Meteorology; North American Hydroclimate**

Credits: 3 Grading Method: Regular, Audit

Various special topics in meteorology are given intensive study. The topic of concentration varies, from semester to semester and depends on student and faculty interests. Often, specialists from other institutions are invited to the campus on a visiting lectureship basis to conduct the course.

0101	Sumant Nigam W 12:30pm - 3:00pm	Seats (Total: 15) ATL 1106

AOSC670 **Physical Oceanography**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of CMNS-Atmospheric & Oceanic Science department. Also offered as: AOSC420, GEOL670. Credit only granted for: GEOL670, AOSC670 or AOSC420.

Ocean observations. Water masses, sources of deep water. Mass, heat, and salt transport, geochemical tracers. Western boundary currents, maintenance of the thermocline. Coastal and estuarine processes. Surface waves and tides. Ocean climate.

0101	Gennady Chepurin MW 3:15pm - 4:30pm	Seats (Total: 11) ATL 2416
AM01	Gennady Chepurin MW 3:15pm - 4:30pm	Seats (Total: 1) ATL 2416

AOSC680 Introduction to Earth System Science

Credits: 3 Grading Method: Regular, Audit

An introduction to the study of the earth as a system: atmosphere, oceans, land, cryosphere, solid earth, and humans. Cycling of materials and energy in the earth system: the energy cycle, the hydrologic cycle, the carbon cycle, the nitrogen cycle. Climate processes and variability: land-atmosphere, ocean-atmosphere, biosphere-climate, and human interactions, short- and long-term variability in climate.

Class meets at the M-Square Office Building Suite 4001, room 4046.

0101	William Lau Tu 12:30pm - 3:30pm	Seats (Total: 20) Location: TBA
AM01	William Lau Tu 12:30pm - 3:30pm	Seats (Total: 1) Location: TBA

AOSC798 Directed Graduate Research

Credits: 1-3 Grading Method: Sat-Fail

Contact department for information to register for this course.

AOSC898 Pre-Candidacy Research

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

AOSC899 Doctoral Dissertation Research

(Perm req) Credits: 6 Grading Method: Sat-Fail

Contact department for information to register for this course.

ARAB Arabic Fall 2018

ARAB104 **Elementary Modern Standard Arabic I-II**

Credits: 6 Grading Method: Regular, Pass-Fail

Prerequisite: Must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not be a fluent/native speaker of Arabic.

An intensive course focusing on developing functional proficiency in th standard Arabic language, both written and formal spoken. Begins with script and phonology, and develops into a limited range of situation-based texts and topics that build vocabulary, grammar, general communicative competence and cultural awareness.

Seats will be opened gradually by the registrar's office, to a total of 15 seats per section.

0101	Dina El-Hefnawy, Lutf Alkebsi MWF 10:00am - 11:50am	Seats (Total: 15) HJP 2118
0201	Lutf Alkebsi, Samah Al-salami MWF 2:00pm - 3:50pm	Seats (Total: 15) JMZ 0120
0301	Lutf Alkebsi, Samah Al-salami MWF 12:00pm - 1:50pm	Seats (Total: 15) JMZ 0120
0401	Dina El-Hefnawy, Lutf Alkebsi MWF 1:00pm - 2:50pm	Seats (Total: 15) HJP 3142

ARAB204 **Intermediate Modern Standard Arabic I**

Credits: 6 Grading Method: Regular, Pass-Fail, Audit CORE: HO

Prerequisite: ARAB105; and must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not be a fluent/native speaker of Arabic.

Covers topics related to contemporary Arabic society, literature and culture in standard written and formal spoken Arabic. Acquisition of more complex grammatical structures, expanding vocabulary, and reading, to develop a better understanding of the formal aspects of using MSA.

0101	Peter Glanville MWF 12:00pm - 1:50pm	Seats (Total: 15) HJP 2118

0201	Zein El-Amine	Seats (Total: 15)
	MWF 10:00am - 11:50am	HJP 3142

ARAB206 **Egyptian Colloquial Arabic I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARAB205; or permission of ARHU-School of Languages, Literatures, and Cultures department. Restriction: Must not be a fluent/native speaker of Arabic.

Develops communicative skills and cultural knowledge in Egyptian Arabic. Focuses on various social interactions, work and school situations, as well as specifics of pronunciation and grammar of the Egyptian dialect. Designed for students who have completed two years of the regular Arabic sequence classes (104-105 and 204-205) or equivalent.

Prerequisite: ARAB205.

0101	Sayed Elsisi	Seats (Total: 15)
	TuTh 3:30pm - 4:45pm	JMZ 3120

ARAB207 **Egyptian Colloquial Arabic II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARAB206; or students who have taken courses with comparable content may contact the department. Restriction: Must not be a fluent/native speaker of Arabic.

Further develops communicative skills and cultural knowledge in Egyptian Arabic, extending range of contexts and types of social interaction. Focuses on various aspects of Egyptian popular culture.

Contact department for information to register for this course.

ARAB304 **Advanced Modern Standard Arabic I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARAB205; or permission of ARHU-School of Languages, Literatures, and Cultures department. Restriction: Must not be a fluent/native speaker of Arabic. Formerly: ARAB301.

Advanced grammar, reading, writing, speaking in Arabic; study of contemporary Arabic society, politics, and culture.

0101	Zein El-Amine TuTh 2:00pm - 3:15pm F 2:00pm - 2:50pm	Seats (Total: 15) HJP 3142 JMZ 2120	 Lab
0201	Zein El-Amine MW 3:00pm - 4:15pm F 3:00pm - 3:50pm	Seats (Total: 15) HJP 3142 HJP 3142	 Lab

ARAB386 **Experiential Learning**

Credits: 3-6 Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of ARHU-School of Languages, Literatures, and Cultures department.

Pre-professional experience in research, analysis and writing in a work setting. Project proposal approved by faculty and internship sponsor. Junior standing.

Contact department for information to register for this course.

ARAB399 **Independent Study In Arabic**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Research and writing or specific readings on a topic selected by the student and supervised by a faculty member on the Department of Arabic Studies. To be planned during semester preceding registration.

2150	Zein El-Amine Contact instructor or department for details.	Seats (Total: 5)

ARAB499M **Special Topics in Arabic Studies; Egyptian Cinema**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

In-depth study of particular aspect of Arabic culture, literature and language. Specific topic to be announced when course is offered.

Prerequisite: ARAB305. Students will survey Egyptian cinema from different periods and will consider how cinema is used to explore themes such as national identity, war, gender and sexuality, poverty, urbanization, colonialism, censorship, language and religion. Taught in Arabic

0101	Sayed Elsisi TuTh 12:30pm - 1:45pm	Seats (Total: 15) WDS 1127

ARAB499Q **Special Topics in Arabic Studies; Ideology of Stereotyping: American and Middle Eastern Film and Television**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

In-depth study of particular aspect of Arabic culture, literature and language. Specific topic to be announced when course is offered.

Credit only granted for ARAB410 or ARAB499Q. Exploration of cultural stereotyping, using examples from American and Middle Eastern cinema and television. Students will examine ideological constructs of Otherness and its history, including Orientalism; propaganda techniques; and audiovisual aspects of stereotyping. While the focus is on American and Middle Eastern cultural production, the course will engage broader issues of stereotyping in contemporary society and media. Readings include theories of propaganda and cultural ideology.

0101	Valerie Anishchenkova	Seats (Total: 20)
	Tu 12:30pm - 3:15pm	HJP 2118

ARAB499X **Special Topics in Arabic Studies; Yemen: Land of War and Peace**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

In-depth study of particular aspect of Arabic culture, literature and language. Specific topic to be announced when course is offered.

Prerequisite: ARAB305 and permission of department. Taught in Arabic.

0101	Samah Al-salami	Seats (Total: 15)
	TuTh 9:30am - 10:45am	HJP 2118

ARAB628A **Special Topics in Arabic Studies; Arabic Audiovisual Discourses**

Credits: 3 Grading Method: Regular, Audit

In-depth study of a particular aspect of Arabic Studies. Topics to be announced when course if offered. Taught in Arabic.

Contact department for information to register for this course.

ARCH Architecture Fall 2018

ARCH170 **Design Thinking and Architecture**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HA General Education: DSHU

Examines conceptual, perceptual, behavioral, and technical aspects of the built environment, and methods of analysis, problem-solving, and design implementation.

0101	Lindsey May W 9:00am - 9:50am Class time/details on ELMs F 9:00am - 9:50am	Seats (Total: 19) ARC 0204 ONLINE ARC 1101	Discussion
0102	Lindsey May W 9:00am - 9:50am Class time/details on ELMs F 9:00am - 9:50am	Seats (Total: 19) ARC 0204 ONLINE ARC 1103	Discussion
0103	Lindsey May W 9:00am - 9:50am Class time/details on ELMs F 9:00am - 9:50am	Seats (Total: 19) ARC 0204 ONLINE ARC 1105	Discussion
0104	Lindsey May W 9:00am - 9:50am Class time/details on ELMs F 9:00am - 9:50am	Seats (Total: 19) ARC 0204 ONLINE ARC 1111	Discussion
0105	Lindsey May W 9:00am - 9:50am Class time/details on ELMs F 12:00pm - 12:50pm	Seats (Total: 19) ARC 0204 ONLINE ARC 1101	Discussion
0106	Lindsey May W 9:00am - 9:50am Class time/details on ELMs F 12:00pm - 12:50pm	Seats (Total: 19) ARC 0204 ONLINE ARC 1103	Discussion
FC01	Elizabeth Petrusic TuTh 7:30pm - 8:45pm *Restricted to students in Freshman Connection.*	Seats (Total: 22) ARC 1105	

ARCH171 **Design Thinking and Making in Architecture**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

Restriction: Must be in a major in ARCH-Architecture Program.

Examines iterative design processes and critical thinking skills through active learning and design thinking methodologies to solve problems and apply design as a lens of inquiry and exploration. Students will understand Design Thinking through interactive and experiential learning.

0101	Michael Ambrose TuTh 11:00am - 12:15pm	Seats (Total: 105) ARC 1103

ARCH201 **Elements and Principles of Architecture**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in a major in ARCH-Architecture Program.

Survey of fundamental elements and principals of architecture and architectural education. Frames study of architecture as a profession, discipline and critical practice.

0101	Brian Kelly M 11:00am - 11:50am	Seats (Total: 60) Location: TBA

ARCH226 **History of World Architecture II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHU

Post-1500 - History of Architecture survey course - History of Architecture structured to develop critical thinking and visually literacy with regard to the worldwide legacy of design thinking and building innovation in architecture

0101	Juan Burke TuTh 3:30pm - 4:45pm	Seats (Total: 120) ARC 0204

ARCH270 **Design in Practice**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP, SCIS

Case studies and hands-on design projects ranging in scale from a product to a building to give students insight into the process by which architects work both individually and collaboratively to put disciplinary knowledge and expertise into practice to shape our built environment.

A Fearless Ideas Course from the Academy for Innovation & Entrepreneurship (AIE): http://ter.ps/iamFEARLESS Click here for more information on the Fearless Ideas Courses.

0101	Madlen Simon TuTh 2:00pm - 3:15pm	Seats (Total: 90) ARC 0204

ARCH271 **People, Planet, and Profit: Building Sustainable Places**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

Also offered as: RDEV250. Credit only granted for: ARCH271 or RDEV250.

An introduction to the four disciplines represented in the School: architecture and urban design, community planning, historic preservation, and real estate development, that work to create a more sustainable environment for the future to create a more sustainable environment for the future using our interpretation of the quadruple bottom line: socio-cultural, economic, environmental, and design sustainability. Students will be provided with an understanding of the fundamental scholarship and processes of each of these disciplines and examine the intersections between them. Additionally, they will learn by applying the approaches of the four disciplines through a series of field studies.

0101	Heidi Bulich TuTh 3:30pm - 4:45pm	Seats (Total: 111) ESJ 1224	

ARCH300 **Design Media and Representation II**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARCH200; or permission of ARCH-Architecture Program. Restriction: Must be in a major in ARCH-Architecture Program.

Study of architectural representation in physical and digital design media. Examine visual communications and speculative visual studies through applied drawing, modeling and making to explore expanded roles of representation in design and design thinking.

0101	Matthew Geiss W 8:00am - 9:50am W 10:00am - 11:50am	Seats (Total: 20) Location: TBA Location: TBA	 Discussion
0102	Matthew Geiss W 8:00am - 9:50am W 12:00pm - 1:50pm	Seats (Total: 20) Location: TBA Location: TBA	 Discussion
0103	Matthew Geiss W 8:00am - 9:50am W 10:00am - 11:50am	Seats (Total: 20) Location: TBA Location: TBA	 Discussion
0104	Matthew Geiss W 8:00am - 9:50am W 12:00pm - 1:50pm	Seats (Total: 20) Location: TBA Location: TBA	 Discussion

0105	Matthew Geiss W 8:00am - 9:50am W 10:00am - 11:50am	Seats (Total: 20) Location: TBA Location: TBA	 Discussion

ARCH386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail General Education: DSSP

Restriction: Must have learning proposal approved by faculty sponsor and student's internship sponsor; and sophomore standing or higher; and permission of ARCH-Architecture Program.

Learning experience tied to internship of specified duration with targeted learning outcomes.

0101	Michael Brick Contact instructor or department for details.	Seats (Total: 10)

ARCH401 **Architecture Design Studio II**

(Perm req)

Credits: 6 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ARCH400. Restriction: Must be in Architecture (B.S.) program.

Continuation of ARCH 400 with introduction to building typology, urban and contextual issues, design of the vertical surface, and architectural interiors.

0101	Michael Abrams MWF 2:00pm - 6:00pm	Seats (Total: 54) Location: TBA
0102	Tonya Ohnstad MWF 2:00pm - 6:00pm	Seats (Total: 15) Location: TBA
0103	Andrew Linn MWF 2:00pm - 6:00pm	Seats (Total: 15) Location: TBA
0104	Georgeanne Matthews MWF 2:00pm - 6:00pm	Seats (Total: 15) Location: TBA

ARCH403 **Architecture Design Studio IV**

(Perm req)

Credits: 6 Grading Method: Regular, Pass-Fail, Audit General Education: FSOC

Prerequisite: Minimum grade of C- in ARCH402. Restriction: Must be in Architecture (B.S.) program.

Investigations into the relationship between the man-made and the natural world including introductory issues of assembly and material value. Design of the site and the building are combined into an integral process delimiting and probing the boundaries of each and exploring their reciprocal relationship. The architect's obligations to the natural and urban contexts are explored in many dimensions including historical, typological, environmental, and physical.

0101	James Tilghman MWF 2:00pm - 6:00pm	Seats (Total: 54) Location: TBA
0102	James Tilghman, Daniel Curry MWF 2:00pm - 6:00pm	Seats (Total: 15) Location: TBA
0103	Joshua Hill, James Tilghman, Eric Hurtt MWF 2:00pm - 6:00pm	Seats (Total: 15) Location: TBA
0104	James Tilghman, Robert Cole MWF 2:00pm - 6:00pm	Seats (Total: 15) Location: TBA

ARCH404 **Graduate Architecture Design Studio I**

(Perm req)

Credits: 6 Grading Method: Regular, Audit

Recommended: For 3 1/2 year graduate students only. Restriction: Must be in Architecture (Master's) program.

Introduction to architectural design with particular emphasis on conventions and principles of architecture , visual and verbal communication skills, formal analysis, design process, spatial composition, architectural promenade, basic program distribution, and elementary constructional and environmental responses. Offered fall only.

0101	Lindsey May MWF 2:00pm - 6:00pm	Seats (Total: 12) Location: TBA

ARCH406 **Graduate Architecture Design Studio III**

(Perm req)

Credits: 6 Grading Method: Regular, Audit

Prerequisite: Minimum grade of C- in ARCH405. Restriction: Must be in Architecture (Master's) program.

Investigations into the relationship between the man-made and the natural world including introductory issues of assembly and material value. Design of the site and the building are combined into an integral process delimiting and probing the boundaries of each and exploring their reciprocal relationship. The architect's obligations to the natural and urban contexts are explored in many dimensions including historical, typological, environmental, and physical.

0101	Daniel Curry	Seats (Total: 16)
	MWF 2:00pm - 6:00pm	Location: TBA

ARCH419 **Independent Studies in Architectural Technology**

Credits: 1-4 Grading Method: Regular, Pass-Fail, Audit

Proposed work must have a faculty sponsor and receive approval of the Architecture Program Curriculum Committee.

0101	Ming Hu	Seats (Total: 5)
	Contact instructor or department for details.	

ARCH426 **History of Architecture II**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of ARCH-Architecture Program. Credit only granted for: ARCH226 or ARCH426. Additional information: Graduate architecture history course requires additional recitation section and additional coursework tied to survey lectures.

Post-1500 - History of Architecture survey course - History of Architecture structured to develop critical thinking and visually literacy with regard to the worldwide legacy of design thinking and building innovation in architecture. Structured to nurture critical thinking and visually literacy with regard to the worldwide legacy of architecture. The work in the course will involve the evaluation of sources and arguments in reading architectural history. Architecture will be framed relative to ways of thinking, religious beliefs, cultural heritage, and cultural values.

Offered fall only.

0101	Juan Burke	Seats (Total: 10)
	TuTh 3:30pm - 4:45pm	ARC 0204

ARCH428C **Selected Topics in Architectural History; City Beautiful Architecture & Urbanism in USA**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected Topics in Architectural History

0101	Cynthia Field	Seats (Total: 15)
	TuTh 2:00pm - 3:15pm	ARC 1111

ARCH428N **Selected Topics in Architectural History; Medieval Building Process**

Credits: 3 Grading Method: Regular, Audit

Selected Topics in Architectural History

Also offered as ARTH489P. Credit only granted for ARCH428N or ARTH489P.

0101	Joseph Williams	Seats (Total: 10)
	TuTh 3:30pm - 4:45pm	ARC 1103

ARCH429 **Independent Studies in Architectural History**

(Perm req)

Credits: 1-4 Grading Method: Regular, Pass-Fail, Audit

Proposed work must have a faculty sponsor and receive approval of the Architecture Program Curriculum Committee.

Prerequisite: permission of department.

0101	Michele Lamprakos	Seats (Total: 5)
	Contact instructor or department for details.	

ARCH430 **Measuring Sustainability in Architecture**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: ARCH430 or ARCH418M. Formerly: ARCH418M.

Studies metrics of sustainability as included in rating standards, including LEED. All students will take the LEED GA test.

0101	Ralph Bennett	Seats (Total: 54)
	TuTh 5:00pm - 6:15pm	ARC 0204

ARCH443 **Visual Communication For Architects**

(Perm req)

Credits: 3 Grading Method: Regular

Corequisite: ARCH400. Restriction: Must be in Architecture (Master's) program; and must be in the 3.5 year M. ARCH program.

Investigation of the relationship between drawing from life and architectural drawing, the conventions of architectural drawing and the role of architectural drawing as a means to develop, communicate, and generate architectural ideas.

0101	Michael Abrams W 10:00am - 12:40pm	Seats (Total: 40) ARC 1105

ARCH449 **Independent Studies in Visual Studies in Architecture**

(Perm req)

Credits: 1-4 Grading Method: Regular, Pass-Fail, Audit

Proposed work must have a faculty sponsor and receive approval of the Architecture Program Curriculum Committee.

Prerequisite: permission of department.

0101	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)

ARCH458A **Selected Topics in Urban Design**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected Topics in Urban Design

Contact department for information to register for this course.

ARCH459 **Independent Studies in Urban Design**

Credits: 1-4 Grading Method: Regular, Pass-Fail, Audit

Proposed work must have a faculty sponsor and receive approval of the Architecture Program Curriculum Committee.

0101	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)

ARCH460 **Site Analysis and Design**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of ARCH-Architecture Program.

Principles and methods of site analysis; the influence of natural and man-made site factors on site design and architectural form.

0101	Jana VanderGoot F 9:30am - 12:00pm	Seats (Total: 60) Location: TBA

ARCH462 **Methods & Materials of Building Construction**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in a major in ARCH-Architecture Program; or must be in Construction Project Management Minor. Credit only granted for: ARCH410 or ARCH462.

Building Construction methods and materials are examined through case studies to explore the means and techniques applied to the material execution of buildings and BIM. Focus on an understanding of the organization of the design and construction process and awareness of building and zoning codes, material systems and types.

0101	Ming Hu TuTh 12:30pm - 1:45pm	Seats (Total: 105) ARC 0204

ARCH464 **Architectural Structures I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in a major in ARCH-Architecture Program. Credit only granted for: ARCH411 or ARCH464.

This course covers the basic principles of architectural structures, including the influence of geometric, sectional, and material properties related to flexure and shear in beam and framed systems; vector mechanics with application to analysis of trusses, catenaries, and arches; diagrammatic analysis of beams for bending moment, shear, and deflection as well as the study of structural framing systems for vertical and lateral loads.

0101	Ming Hu TuTh 9:30am - 10:45am	Seats (Total: 70) ARC 0204

ARCH466 **Environmental Systems in Architecture**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in a major in ARCH-Architecture Program. Credit only granted for: ARCH413 or ARCH466.

Environmental systems in architecture presents the theory, quantification, and architectural design implications for heating ventilating and air conditioning, water and waste, fire protection, electricity, illumination, acoustics, and vertical transportation.

0101	Carl Bovill	Seats (Total: 90)	
	TuTh 11:00am - 12:15pm	ARC 0204	

ARCH467 **Integrated Project Delivery**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in a major in ARCH-Architecture Program; or must be in Construction Project Management Minor.

Integrated Project Delivery is examined from design to implementation through an exploration of building construction, architectural design and construction management perspectives.

0101	Andrew Kelmers	Seats (Total: 10)	
	Th 7:00pm - 9:40pm	ARC 1125	

ARCH470 **Computer Applications in Architecture**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARCH400; or permission of ARCH-Architecture Program. Restriction: Must be in Architecture (B.S.) program.

Introduction to computer utilization, with emphasis on architectural applications.

0101	Andrew Lindberg	Seats (Total: 18)	
	Tu 7:00pm - 9:30pm	ARC 1115	
	Th 7:00pm - 8:15pm	ARC 1115	Lab

ARCH472 **Building Information Modeling Communication and Collaboration**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in a major in ARCH-Architecture Program; or must be in the Construction Project Management Minor. Credit only granted for: ARCH678I or ARCH472. Formerly: ARCH678I.

Building Information Modeling is explored as pertains to collaboration and communication in the design and construction of buildings and building systems. Practical and empirical learning using BIM software and case studies of real world projects and construction scenarios.

0101	Kent Crawford W 9:00am - 11:40am	Seats (Total: 20) ARC 1115

ARCH478J **Selected Topics in Architecture; Adaptation**

Credits: 3 Grading Method: Regular, Audit

Selected Topics in Architecture

0101	Michele Lamprakos Tu 7:00pm - 9:40pm	Seats (Total: 10) ARC 1111

ARCH478T **Selected Topics in Architecture; Ecological Design Thinking**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected Topics in Architecture

The etymology and definition of ecology contain aspects of house, of relationships, of the living environment and of systems. We will engage with all of these concepts in this course. Design thinking is a form of systems thinking, in which many variables and scales, requirements and ideas interact to form a coherent whole. We will ask WHY a lot. We will ask WHY a lot. We will discover ways to confront difficult truths, negotiate contradictions, and still be an effective advocate and change agent.

0101	Julie Gabrielli M 10:00am - 12:40pm	Seats (Total: 15) ARC 1105

ARCH478X **Selected Topics in Architecture; Building Abroad: Research & Practice**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Selected Topics in Architecture

Building Abroad: Research & Practice explores Haitian culture and sustainable design in developing countries. Faculty and student participants will co-lead this seminar course. After identifying critical topics, students will research related issues and compile research into two presentations and a series of booklets which will be used as the basis of design for Roots Home & Abroads design in Haiti. The goals and strategies of the class will embody Root's mission to educate and empower communities, both home and abroad, to create a sustainable quality of life.

0101	Ronit Eisenbach Th 1:00pm - 3:40pm	Seats (Total: 4) Location: TBA

ARCH479 **Independent Studies in Architecture**

(Perm req)

Credits: 1-4 Grading Method: Regular, Pass-Fail, Audit

Proposed work must have a faculty sponsor and receive approval of the Architecture Program Curriculum Committee.

Prerequisite: permission of department.

0101	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)
0123	Andrew Linn Contact instructor or department for details.	Seats (Total: 1)

ARCH489 **Independent Studies in Architectural Preservation**

(Perm req)

Credits: 1-4 Grading Method: Regular, Pass-Fail, Audit

Proposed work must have a faculty sponsor and receive approval of the Architecture Program Curriculum Committee.

Prerequisite: permission of department.

0101	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)

ARCH600 **Integrated Design Studio V**

(Perm req)

Credits: 6 Grading Method: Regular, Audit

Corequisite: ARCH611. Restriction: Permission of ARCH-Architecture Program.

Integrated and comprehensive building and site design. Course content bridges the gap between design and technology, between practice and education, in a studio setting. Explorations include the integration of conceptual and technical aspects of architectural form and assembly, highlighting the ways in which multiple layers of a building design are developed, coordinated and resolved.

0101	Brittany Williams, Julie Gabrielli, Amy Gardner MWF 2:00pm - 6:00pm	Seats (Total: 32) Location: TBA

ARCH611 **Advanced Architecture Technology Seminar**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Corequisite: ARCH600. Restriction: Permission of ARCH-Architecture Program.

Technology in design of buildings. Application of technological issues in building design; integration of technology in architecture; technology as a form determinant in architecture; other conceptual and philosophical issues related to the application of technology in the design, construction, and use of buildings.

Offered fall only.

0101	Gregory Wiedemann, Ming Hu, Brittany Williams, Carl Bovill, Julie Gabrielli, Amy Gardner TuTh 5:00pm - 6:15pm	Seats (Total: 25) ARC 1103

ARCH628 **Selected Topics in Architectural History**

Credits: 1-4 Grading Method: Regular, Audit

Graduate Selected Topics in Architectural History

0101	Instructor: TBA TuTh 2:00pm - 3:15pm	Seats (Total: 15) Location: TBA

ARCH628C **Selected Topics in Architectural History; City Beautiful Architecture & Urbanism in USA**

Credits: 3 Grading Method: Regular, Audit

Graduate Selected Topics in Architectural History

0101	Cynthia Field TuTh 2:00pm - 3:15pm	Seats (Total: 10) ARC 1111

ARCH628N **Selected Topics in Architectural History; Medieval Building Process**

Credits: 3

Grading Method: Regular, Audit

Graduate Selected Topics in Architectural History

This seminar considers medieval strategies of design and construction, in which episodic and evolving projects were the norm. This course will provide a foundation in the analysis and interpretation of construction chronology, as well as engage with theoretical discourse on building and time.

0101	Joseph Williams TuTh 3:30pm - 4:45pm	Seats (Total: 9) ARC 1103

ARCH629 **Graduate Independent Studies in Architectural History**

(Perm req)

Credits: 1-4

Grading Method: Regular, Audit

Proposed work must have a faculty sponsor and receive approval of the Architecture Program Curriculum Committee.

0701	Instructor: TBA Contact instructor or department for details.	Seats (Total: 10)
0801	Instructor: TBA Contact instructor or department for details.	Seats (Total: 10)
0901	Instructor: TBA Contact instructor or department for details.	Seats (Total: 2)

ARCH678C **Advanced Selected Topics in Architecture; Architecture and Cinema: Place and Film**

Credits: 3

Grading Method: Regular, Audit

Graduate Selected Topics in Architecture.

A graduate level seminar that investigates architecture and the idea of place within the context of film media. Seminar based themes are developed from critical source viewings and assigned texts centered on an approach to engaging the environment. The structure of the course consists of seminar discussions of texts and paired films, research, presentations, and a series of creative projects that actively engage the themes of the seminar.

0101	Peter Noonan Th 7:00pm - 9:40pm	Seats (Total: 15) ARC 1127

ARCH678G **Advanced Selected Topics in Architecture; Low Heat Lab: Design-Weave-Build, Takoma Park, MD**

Credits: 3 Grading Method: Regular, Audit

Graduate Selected Topics in Architecture.

A graduate level hands-on seminar where students will participate in the design and construction of a small-scale, site-specific installation built with Low-Heat materials. Research into vernacular and contemporary architectural projects that incorporate the craft of binding, weaving, rolling, and knotting will structure course discussions. Paper modeling will be used to explore preliminary design ideas for the installation and solicit feedback from our client.

0101	Jana VanderGoot Tu 4:00pm - 6:40pm	Seats (Total: 15) ARC 1111

ARCH678J **Advanced Selected Topics in Architecture; Adaptation**

Credits: 3 Grading Method: Regular, Audit

Graduate Selected Topics in Architecture.

Exploring adaptation as philosophy and practice. We delve into case studies and theoretical writings, as well as practical aspects of adaptive reuse, renovation, and rehabilitation. Topics include memory and the artifact; building as palimpsest; obsolescence and renewal; materials and weathering; adaptation and sustainability; new architecture in historic contexts; and recovered landscapes.

0101	Michele Lamprakos Tu 7:00pm - 9:40pm	Seats (Total: 10) ARC 1111

ARCH678L **Advanced Selected Topics in Architecture; Destruction, Memory and Renewal**

Credits: 3 Grading Method: Regular, Audit

Graduate Selected Topics in Architecture.

In this course, we'll explore motives for the destruction of historic monuments and sites - and how these objects and places are remembered and renewed, as societies struggle to recover and rebuild.

0101	Michele Lamprakos M 7:00pm - 9:40pm	Seats (Total: 15) ARC 1125

ARCH678T **Advanced Selected Topics in Architecture; Ecological Design Thinking**

Credits: 3

Grading Method: Regular, Audit

Graduate Selected Topics in Architecture.

The etymology and definition of ecology contain aspects of house, of relationships, of the living environment and of systems. We will engage with all of these concepts in this course. Design thinking is a form of systems thinking, in which many variables and scales, requirements and ideas interact to form a coherent whole. We will ask WHY a lot. We will ask WHY a lot. We will discover ways to confront difficult truths, negotiate contradictions, and still be an effective advocate and change agent.

0101	Julie Gabrielli	Seats (Total: 15)
	M 10:00am - 12:40pm	ARC 1105

ARCH678X **Advanced Selected Topics in Architecture; Building Abroad: Research & Practice**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Graduate Selected Topics in Architecture.

Building Abroad: Research & Practice explores Haitian culture and sustainable design in developing countries. Faculty and student participants will co-lead this seminar course. After identifying critical topics, students will research related issues and compile research into two presentations and a series of booklets which will be used as the basis of design for Roots Home & Abroads design in Haiti. The goals and strategies of the class will embody Root's mission to educate and empower communities, both home and abroad, to create a sustainable quality of life.

0101	Ronit Eisenbach	Seats (Total: 4)
	Th 1:00pm - 3:40pm	Location: TBA

ARCH679 **Advanced Independent Studies in Architecture; Independent Study in Architecture**

Credits: 1-4

Grading Method: Regular, Audit

Proposed work must have a faculty sponsor and receive approval of the Architecture Program Curriculum Committee.

Contact department for information to register for this course.

ARCH700 **Urban Design Studio VII**

(Perm req)

Credits: 6

Grading Method: Regular, Audit

Restriction: Permission of ARCH-Architecture Program.

Studio problems and theories concentrating on urbanism and urban design techniques. Issues and sites range from high density urban in-fill to suburban and greenfield development in American and other contexts. Studio theories explore such topics as Contextualism, Neo-Traditional design, Transit-Oriented Development, density, sustainable development building typology, and street design.

0101	Matthew Bell, Timothy Bertschinger	Seats (Total: 19)
	TuTh 1:00pm - 6:00pm	ARC 1127

ARCH770 **Professional Practice of Architecture**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of ARCH-Architecture Program.

Project management, organizational, legal, economic and ethical aspects of architecture.

0101	Andrew Pressman	Seats (Total: 30)
	M 11:00am - 1:50pm	ARC 1101

ARCH797 **Thesis Proseminar**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ARCH601.

Directed research and preparation of thesis program.

0101	James Tilghman	Seats (Total: 20)
	TuTh 9:00am - 10:15am	ARC 1103

ARCH798 **Thesis in Architecture**

(Perm req)

Credits: 3 Grading Method: Regular

Complements the research of ARCH 799, with presentation of the design research to student's thesis committee.

Contact department for information to register for this course.

ARCH799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Development of master's thesis.

Restricted to ARCH majors only.

Contact department for information to register for this course.

AREC Agricultural and Resource Economics — Fall 2018

AREC200 **The Chesapeake Bay Ecosystem: Intersection of Science, Economics, and Policy**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: LS | General Education: DSNS, DSSP, SCIS

The Chesapeake Bay is one of the most studied and monitored ecosystems in the world. To develop effective policies to restore this system to a healthier status requires integrating what we know about the biological and physical properties of the system with our understanding of the human dimension. Issues such as achieving nutrient reduction goals, restoring healthy blue crab and oyster fisheries in the bay will be used to demonstrate how economics interacts with science to guide policies that can be effective in achieving Bay restoration goals.

0101	Sara Lombardi, Jorge Holzer Bilbao MW 10:00am - 10:50am F 11:00am - 11:50am	Seats (Total: 35) JMZ 0220 PLS 1113	Discussion
0102	Jorge Holzer Bilbao, Sara Lombardi MW 10:00am - 10:50am F 11:00am - 11:50am	Seats (Total: 35) JMZ 0220 EGR 3106	Discussion
0103	Jorge Holzer Bilbao, Sara Lombardi MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 35) JMZ 0220 BPS 1236	Discussion
0104	Jorge Holzer Bilbao, Sara Lombardi MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 35) JMZ 0220 CHM 0122	Discussion

AREC250 **Elements of Agricultural and Resource Economics**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS

Credit only granted for: ECON200, AREC240 or AREC250.

An introduction to economic principles of production, marketing, agricultural prices and incomes, farm labor, credit, agricultural policies, and government programs.

Contact department for information to register for this course.

AREC306 **Farm Management and Sustainable Food Production**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

The organization and operation of farm businesses are explored through principles of management, financial analysis, production economics, marketing, and business planning. These farm management principles are presented in the context of a sustainable food production system.

0101	Dale Johnson	Seats (Total: 40)
	MW 3:30pm - 4:45pm	LEF 2166

AREC326 **Intermediate Applied Microeconomics**

Credits: 3 | Grading Method: Regular

Prerequisite: ECON200, AREC250, or AREC240; and ECON201. And MATH120, MATH130, MATH136, or MATH140; or must have completed MATH220. Credit only granted for: ECON306, ECON326, AREC489M, or AREC326. Formerly: AREC489M.

Deepens and broadens your ability to apply rigorous economic analysis skills to a broad range of problems.

0101	Neslihan Uler	Seats (Total: 45)
	TuTh 9:30am - 10:45am	JMZ 2206

AREC365 **World Hunger, Population, and Food Supplies**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | , D | General Education: DVUP

An introduction to the problem of world hunger and possible solutions to it. World demand, supply, and distribution of food. Alternatives for leveling off world food demand, increasing the supply of food, and improving its distribution. Environmental limitations to increasing world food production.

0101	Kenneth Leonard	Seats (Total: 300)
	MWF 1:00pm - 1:50pm	PHY 1412

AREC380 **Data Science for Environmental and Resource Economics**

Credits: 3 | Grading Method: Regular

Prerequisite: AREC240, AREC241, AREC250, or ECON200.

An introduction to principles of data science using modern, open source software tools with applications to important problems in environmental, energy and resource economics. Topics include data wrangling, exploratory data analysis and visualization, modeling, forecasting, practices for reproducible research, and communication of results.

0101	James Archsmith	Seats (Total: 30)
	MWF 10:00am - 10:50am	PLS 1129

AREC386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Prerequisite: Permission of AGNR-Agricultural & Resource Economics department. Restriction: Junior standing or higher.

Contact department for information to register for this course.

AREC388 **Honors Thesis Research**

(Perm req)

Credits: 3-6 Grading Method: Regular

Undergraduate honors thesis research conducted under the direction of an AGNR faculty member in partial fulfillment of the requirements of the College of AGNR Honors Program. The thesis will be defended to a faculty committee.

Contact department for information to register for this course.

AREC399 **Special Problems**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Concentrated reading and study in some phase of a problem in agricultural and/or natural resource economics.

Contact department for information to register for this course.

AREC422 **Econometric Applications in Agricultural and Natural Resource Economics**

Credits: 3 Grading Method: Regular

Prerequisite: AREC326; or ECON326. Restriction: Must be in a major within the AGNR-Agricultural & Resource Economics department. Credit only granted for: ECON422, AREC422, or AREC489F. Formerly: AREC489F.

The main goal of this course is to equip students with valuable skills in econometrics and data analysis. Specifically, the main goal of the course is to teach you the basics of the theory and practice of econometrics, and to give you experience in estimating econometric models with actual data.

0101	Youpei Yan	Seats (Total: 35)
	MWF 11:00am - 11:50am	TYD 2109

AREC426 **Economic Methods and Food Consumption Policy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: AREC326; or ECON326. Credit only granted for: AREC489O or AREC426. Formerly: AREC489O.

An overview of major econometric tools used by policy makers, economists and social scientists to analyze the effects of food consumption policy. Major food assistance programs in the United States such as SNAP, the School Lunch Program and the School Breakfast Program will be discussed.

0101	Mary Zaki	Seats (Total: 40)
	TuTh 9:30am - 10:45am	ASY 3203

AREC430 **Introduction to Agricultural and Resource Law**

Credits: 3 Grading Method: Regular

Prerequisite: ECON326 or AREC326. Credit only granted for: AREC430 or AREC489K. Formerly: AREC489K.

Survey of law with emphasis on problems and applications related to agricultural and natural resource economics. The course emphasizes strategies for managing legal risk arising from ownership, management, and use of agricultural resources. Students will get practical information to utilize in personal or professional settings. Contract law, constitutional law, tort law, property law, real estate transactions, business organization, estate planning, and debtor.

0101	Paul Goeringer	Seats (Total: 75)
	MWF 9:00am - 9:50am	SYM 0200

AREC433 **Food and Agricultural Policy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ECON326 or AREC326; or students who have taken courses with comparable content may contact the department.

Economic and political context of governmental involvement in the farm and food sector. Historical programs and current policy issues. Analysis of economic effects of agricultural programs, their benefits and costs, and comparison of policy alternatives. Analyzes the interrelationship among international development, agricultural trade and general economic and domestic agricultural policies.

0101	Howard Leathers	Seats (Total: 35)
	MWF 10:00am - 10:50am	SYM 0215

AREC453 **Natural Resources and Public Policy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ECON326 or AREC326; and students who have taken courses with comparable content may contact the department. Also offered as: ECON453. Credit only granted for: AREC453 or ECON453.

Rational use and reuse of natural resources. Theory, methodology, and policies concerned with the allocation of natural resources among alternative uses. Optimum state of conservation, market failure, safe minimum standard, and cost-benefit analysis.

0101	Erik Lichtenberg	Seats (Total: 80)
	TuTh 2:00pm - 3:15pm	SYM 0200

AREC455 **Economics of Land Use**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ECON326 or AREC326; or students who have taken courses with comparable content may contact the department.

Fundamentals of location theory. Microeconomics of land use decisions, including determination of rent and hedonic pricing models. Impacts of government decisions on land use, including regulation (e.g., zoning), incentives (transferable development rights), provision of public services, and infrastructure investments. Impacts of land use on environmental quality, including issues relating to sprawl, agricultural land preservation, and other topics of special interest.

0101	David Newburn	Seats (Total: 80)
	TuTh 3:30pm - 4:45pm	SYM 0200

AREC620 **Optimization in Agricultural and Resource Economics**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have completed Multivariate calculus and matrix or linear algebra.

Mathematical theory of static and dynamic optimization as applied to the economics of agriculture, natural resources and the environment. Topics include necessary and sufficient conditions for constrained optimization, convexity and concavity, duality and the envelope theorem, comparative statics, fixed point theorems, optimal control theory and dynamic programming.

0101	Lars Olson	Seats (Total: 25)	
	W 5:30pm - 8:00pm Tu 11:00am - 12:30pm	SYM 0209 JMZ 1117	Discussion

AREC623 **Applied Econometrics I**

Credits: 4 Grading Method: Regular, Audit

Prerequisite: Introductory statistics or econometrics; or permission of instructor.

A modern introduction to empirical strategies in applied micro research in fields like public policy, development economics, labor economics, education, marketing and corporate finance. Lectures focus on concepts and applications with the view that empirical work must address economically meaningful causal questions. Some theoretical and mathematical aspects of probability and statistics will be developed to assess the significance of the relationship among economic variables.

0101	Erich Battistin	Seats (Total: 27)	
	MW 10:00am - 12:30pm F 10:00am - 12:00pm	PLS 1111 SYM 0115	Discussion

AREC632 **Agricultural Policy Analysis**

Credits: 3 Grading Method: Regular, Audit

Also offered as: AREC832. Credit only granted for: AREC632 or AREC832.

The economics of agricultural policies. Methods for analyzing costs and benefits of price supports, import restraints, and other policies for producers, consumers, and taxpayers. Farm programs of the U.S., other industrial countries and developing countries including interventions in both domestic markets and international trade are covered along with their consequences for factor owners and related commodity markets. Theories of the farm problem and possible remedies are offered.

0101	Erik Lichtenberg	Seats (Total: 25)	
	TuTh 9:30am - 10:45am	SYM 0209	

AREC699 **Special Problems in Agricultural and Resource Economics**

(Perm req)

Credits: 1-2 Grading Method: Regular, Audit

Intensive study and analysis of specific problems in the field of agricultural and resource economics, providing in-depth information in areas of special interest to the student.

Contact department for information to register for this course.

AREC785 **Advanced Economics of Natural Resources**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of AGNR-Agricultural & Resource Economics department; or (ECON603 and AREC623). Also offered as: ECON785. Credit only granted for: AREC785 or ECON785.

The use of exhaustible and renewable natural resources from normative and positive points of view. Analysis of dynamic resource problems emphasizing energy, mineral, groundwater, forestry, and fishery resources; optimal, equilibrium, and intergenerational models of resource allocation.

0101	James Archsmith, Jorge Holzer Bilbao	Seats (Total: 28)
	MW 12:30pm - 1:45pm	EGR 2154

AREC799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

AREC829 **Topics in Applied Econometrics**

Credits: 3 Grading Method: Regular, Audit

Covers a number of empirical strategies in applied micro research to estimate the effects of a policy (or program) on the outcomes of interest. The topics covered represent the toolbox of modern causal inference in academic fields like public policy, development economics, labor economics, education, marketing and corporate finance, as well as in the industry and international organizations. Emphasis is given to the thought experiment, the hypothetical experiment that should be used to answer the causal question of interest.

0101	Erich Battistin	Seats (Total: 25)
	M 2:00pm - 5:00pm	BPS 1234

AREC832 **Advanced Agricultural Policy Analysis**

Credits: 3 Grading Method: Regular, Audit

Also offered as: AREC632. Credit only granted for: AREC632 or AREC832.

Research problems in agricultural policy that include models and methods for explaining the consequences and causes of intervention in agricultural commodity markets. Quantitative, market level analysis of the implications of uncertainty, strategic behavior in international trade, second-best policies, the general equilibrium analysis of intervention, and the political economy of collective action in farm policy.

0101	Erik Lichtenberg	Seats (Total: 25)
	TuTh 9:30am - 10:45am	SYM 0209

AREC847 **Networks, Social Learning and Technology Adoption**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: AREC624, AREC623, and ECON603; and students who have taken courses with comparable content may contact the department.

This class will focus on networks, learning from others, and peer effects and the role ofeach in human capital accumulation, technology adoption and behavior. The material isfocused on applications of education, health agriculture and entrepreneurship in developingcountries, but will draw heavily from literatures on these effects in developed countries aswell. The class will cover the theory of networks and learning but its primary focus will beon the empirical difficulty of identifying these effects and establishing causality.

0101	Kenneth Leonard	Seats (Total: 20)
	MW 9:30am - 10:45am	TYD 1108

AREC892 **Dissertation Prospectus Development**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Completion of two years of the AREC Ph.D. program. Credit only granted for: AREC 869P or AREC 892. Formerly: AREC869P.

Presentations of proposed dissertation research including literature review, model development, data identification, and written prospectus development. Required of all third-year Ph.D. students.

0101	Stephen Salant	Seats (Total: 35)
	MW 11:00am - 12:15pm	SYM 2200B

AREC898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

AREC899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

ARHU Arts and Humanities Fall 2018

ARHU158K **Explorations in Arts and Humanities; Roads to J.R.R. Tolkien's Middle-earth**

Credits: 3 Grading Method: Regular General Education: DSSP

A first-year innovation and research experience. It introduces multiple disciplinary perspectives within a given theme to understand human beings, cultures and societies. Students will learn about key questions, concepts, methods, and practices within ARHU and will engage in original humanistic research while working with campus and college tools and resources.

Restricted to first semester freshmen in the College of Arts and Humanities. Ever read The Hobbit or The Lord of the Rings? (Did you feel like skipping the poems?) Many know Tolkien for his fantasy fiction set in Middle-earth, but may not know that he was a poet in his youth, or that he was a scholar and professor of medieval literature and languages. Upon closer examination, Tolkien's scholarship, his poetry, and even his artwork all make important contributions to his famous tales of hobbits and wizards. Beginning with an exploration of Middle-earth from the perspectives of literature, art, film, and language studies, we will consider how -and why - authors employ more than one mode of expression in the development of their art. Additionally, our study of "multimodality" will allow us to examine the flexibility and range of our studies and career options in the Arts and Humanities.

0101	Peter Grybauskas	Seats (Total: 25)
	TuTh 9:30am - 10:45am	TWS 1313

ARHU158M **Explorations in Arts and Humanities; Art and War**

Credits: 3 Grading Method: Regular General Education: DSSP

A first-year innovation and research experience. It introduces multiple disciplinary perspectives within a given theme to understand human beings, cultures and societies. Students will learn about key questions, concepts, methods, and practices within ARHU and will engage in original humanistic research while working with campus and college tools and resources.

Restricted to first semester freshmen in the College of Arts and Humanities. The casualties of war go beyond human lives. Both of the world wars in Europe led to innumerable art and architectural losses. Recent conflicts in the Middle East have obliterated priceless and irreplaceable ancient monuments. Drawing on perspectives form visual arts, literature, and history, this course will address the destruction of our shared cultural heritage, as well as ways in which visual artists and writers have used their creative energy to deal with war trauma. Students will be introduced to key works of art and literature - lost in wars or inspired by war-time experience - ranging from antiquity to the twenty-first century. In addition to gaining a deeper understanding of this aspect of human civilization, they will engage in creative projects - including the development of interactive web features on this theme.

0101	Aneta Georgievska-Shine	Seats (Total: 25)
	TuTh 2:00pm - 3:15pm	TWS 1313

ARHU158N **Explorations in Arts and Humanities; The Practice of Embodied Learning**

Credits: 3 Grading Method: Regular General Education: DSSP

A first-year innovation and research experience. It introduces multiple disciplinary perspectives within a given theme to understand human beings, cultures and societies. Students will learn about key questions, concepts, methods, and practices within ARHU and will engage in original humanistic research while working with campus and college tools and resources.

Restricted to first semester freshmen in the College of Arts and Humanities. This course explores the movement of learning, how we exist within our bodies as we engage in our studies and how to have healthier relationships with our bodies that can carry through a lifetime. Physical practice is a key component of this course - students will engage in embodied research methodologies in order to bring a heightened state of awareness in the body system. Students will especially draw inspiration from the fields of dance, theatre, communication, and gender studies and discover how the Arts and Humanities have facilitated better intercommunication through creative collaboration of bodies in space together.

0101	Adriane Fang	Seats (Total: 25)
	MW 10:00am - 11:15am	TWS 1313

ARHU158O **Explorations in Arts and Humanities; Metaphoric Building Blocks of Knowledge**

Credits: 3 Grading Method: Regular General Education: DSSP

A first-year innovation and research experience. It introduces multiple disciplinary perspectives within a given theme to understand human beings, cultures and societies. Students will learn about key questions, concepts, methods, and practices within ARHU and will engage in original humanistic research while working with campus and college tools and resources.

Restricted to first semester freshmen in the College of Arts and Humanities. Is your new roommate a ray of sunshine or a snake in the grass? Human experience is grounded in metaphor: we process new information based on how it resembles (or differs from) those things already familiar to us. In this course, we will explore how people use metaphor to gain new knowledge and insights-and what happens when those metaphors lead us astray-in such fields as literature, history, and the visual arts.

0101	Mark Forrester	Seats (Total: 25)
	TuTh 3:30pm - 4:45pm	TWS 1313

ARHU158P **Explorations in Arts and Humanities; Words Matter - A Consideration of the Power of Language**

Credits: 3 Grading Method: Regular General Education: DSSP

A first-year innovation and research experience. It introduces multiple disciplinary perspectives within a given theme to understand human beings, cultures and societies. Students will learn about key questions, concepts, methods, and practices within ARHU and will engage in original humanistic research while working with campus and college tools and resources.

Restricted to first semester freshmen in the College of Arts and Humanities. Beginning with the origins of the spoken and written word, this class will focus on the impact of words on relationships and cultural understanding. Exploring words from a variety of perspectives (sociolinguistic, interpersonal and intrapersonal) and as part of a dialogue on the intersectionality of race, class and gender, this course will consider the dynamic between words and their impact as we encounter them.

0101	Paula Nadler	Seats (Total: 25)
	MW 12:00pm - 1:15pm	KEY 0103

ARHU269M **Special Topics in Study Abroad II; Sicily Against the Mafia**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARHU269P **Special Topics in Study Abroad II; Mystery Paintings**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARHU269V **Special Topics in Study Abroad II; Vienna and Budapest Field Study**

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARHU275 **Writing to be Seen: Scriptwriting for Theatre, Film, and Television**

Credits: 3 Grading Method: Regular, Pass-Fail General Education: DSHU, DSSP

Also offered as: ENGL275. Credit only granted for: ENGL278D, ENGL275, ARHU319B or ARHU275. Formerly: ENGL278D; ARHU319B.

Introduction to theory and practice of scriptwriting with opportunity to read, view, evaluate, write, and revise texts meant to be performed for spectators. Practice writing for the stage, film and television, with emphasis on critical reading of textual and visual literary models. Theory and scholarship teaching opportunities and advantages of each format. Application of scholarship to analysis and critique of plays and texts successful across two different formats. Examination of selected scripts, performances, and film and television clips as models for students' own creative work. Frequent writing exercises and use of workshop format.

0101	Paul Cote TuTh 3:30pm - 4:45pm	Seats (Total: 15) KEY 0119
0102	Paul Cote TuTh 3:30pm - 4:45pm *This section is restricted to students in the Jimenez-Porter Writers' House.*	Seats (Total: 5) KEY 0119
0201	Heidi Scott MWF 10:00am - 10:50am	Seats (Total: 20) TWS 1106

ARHU286 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Prerequisite: Permission of ARHU-College of Arts & Humanities. Restriction: Minimum cumulative GPA of 2.5; and must be in a major or minor in ARHU - College of Arts and Humanities; and must have earned a minimum of 12 credits; and must not have earned more than 60 credits.

Designed for students who have completed fewer than 60 credits, students who are in their first semester at the University of Maryland, and/or students who wish to complete legislative internships, research-based internships, some start-up internships and some remote internships. All students must be enrolled in an ARHU major or minor and the internship must be in one of the academic fields covered within the College of Arts and Humanities. In addition to completing their required hours on site, students with fewer than 60 credits and students who are in their first semester at the University of Maryland will be required to attend three bi-weekly seminars at the beginning of the semester to help develop their para-professional goals and understandings.

0101	Paula Nadler Contact instructor or department for details.	Seats (Total: 5)

ARHU298L **Critical Approaches to Traditional and Non-Traditional Literary Forms across Different Cultures**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HL General Education: DSHU

Examines the different types of literature (Novel, Short Story, Flash Fiction, Comics, etc.) produced by groups or individuals under diverse circumstances (cultural, historical, political, geographical, economic, philosophical, etc.). The required texts will provide the students with an opportunity to revaluate some commonly underestimated literary forms, such as flash fiction, comics orspoken word poetry and to understand the function of these manifestations in relationship to more traditional (canonical) expressions such as the novel.

FC01	Vivianne Salgado TuTh 3:00pm - 4:15pm	Seats (Total: 26) SQH 1123
	Restricted to students in Freshman Connection.	

ARHU309 **Writers' House Colloquium: Creative Writing in Community**

(Perm req)

Credits: 1 Grading Method: Regular

Colloquium designed to improve students' skills in literary and communication arts through lectures, workshop and discussions on the history and craft of writing across cultures. Topics include poetry and fiction in translation, and exploration of modes of critique, elements of craft of fiction and poetry, writing for different media, genre writing, writing for performance, screen or scriptwriting and creative non-fiction.

For Writers House students only.

0101	Johnna Schmidt W 3:30pm - 5:00pm	Seats (Total: 15) QAN 1132
0201	Jessica Hammack W 7:00pm - 8:30pm	Seats (Total: 15) QAN 1132
0301	Sabrina Islam W 5:15pm - 6:45pm	Seats (Total: 15) QAN 1132

ARHU319A **Writers' House Second Year Colloquium: Form and Theory of Creative Writing; Prose**

(Perm req)

Credits: 3 Grading Method: Regular General Education: DSHU, DSSP

Required course for Writers' House students pursuing the notation program. Offered in either poetry or imaginative prose writing. Students work at the intermediate level, refining creative writing skills through cross-cultural reading and writing exercises. As part of the course, students attend a series of lectures and readings given by professional writers.

For Writers' House students only. For further details please contact Johnna Schmidt jmschmid@umd.edu. Course will meet in Queen Anne's Library.

0101	Vivianne Salgado	Seats (Total: 15)
	M 3:30pm - 6:00pm Contact instructor or department for details.	QAN 1132

ARHU319B **Writers' House Second Year Colloquium: Form and Theory of Creative Writing; Poetry**

(Perm req)

Credits: 3 Grading Method: Regular General Education: DSHU, DSSP

Required course for Writers' House students pursuing the notation program. Offered in either poetry or imaginative prose writing. Students work at the intermediate level, refining creative writing skills through cross-cultural reading and writing exercises. As part of the course, students attend a series of lectures and readings given by professional writers.

For Writers' House students only. For further details please contact Johnna Schmidt jmschmid@umd.edu. Course will meet in Queen Anne's Library.

0101	Laura Lauth	Seats (Total: 15)
	Th 5:30pm - 8:00pm Contact instructor or department for details.	QAN 1132

ARHU319C **Writers' House Second Year Colloquium: Form and Theory of Creative Writing; Spoken Word**

(Perm req)

Credits: 3 Grading Method: Regular General Education: DSHU, DSSP

Required course for Writers' House students pursuing the notation program. Offered in either poetry or imaginative prose writing. Students work at the intermediate level, refining creative writing skills through cross-cultural reading and writing exercises. As part of the course, students attend a series of lectures and readings given by professional writers.

For Writers' House students only. For further details please contact Johnna Schmidt jmschmid@umd.edu. Course will meet in the Stamp Student Union, Room 1121.

0101	Naliyah Kaya	Seats (Total: 15)
	W 3:30pm - 6:00pm Contact instructor or department for details.	SSU 1121

ARHU338 **Undergraduate Teaching Assistantship in a Living Learning Program**

(Perm req)

Credits: 3 Grading Method: Regular

Offers exceptional students the opportunity to work closely with a faculty member and gain valuable experience. ARHU Living learning program UTAs also serve as peer mentors and program leaders. They assist with course planning, research, and student advising (as appropriate). We are also allowing for variable credit (1-3 cr hrs).

0101	Johnna Schmidt Contact instructor or department for details.	Seats (Total: 10)
0102	Jason Farman Contact instructor or department for details.	Seats (Total: 2)
0103	Krista Caballero Contact instructor or department for details.	Seats (Total: 2)
0104	Instructor: TBA Contact instructor or department for details.	Seats (Total: 2)

ARHU375 **The TV Writers Room Screenwriting for Television and Video**

(Perm req)

Credits: 3 Grading Method: Regular General Education: DSSP

Prerequisite: ARHU275, ARHU318, or FILM370; and permission of instructor. Additional information: Priority in enrollment will be given to students participating in the Jimenez-Porter Writers' House and FILM studies programs.

Students engage with the theory and practice of screenwriting for television and video. Students read and watch teleplays designed to teach advantages of the television format. Students apply what they learn to prepare frequent writing exercises, share and provide feedback for peers scripts in a workshop format, and work together as a Writers Room to prepare an original pilot episode.

0101	Paul Cote M 12:30pm - 3:00pm	Seats (Total: 15) QAN 1132

ARHU386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail General Education: DSSP

Prerequisite: Permission of ARHU-College of Arts & Humanities. Restriction: Junior standing or higher.

0101	Paula Nadler Contact instructor or department for details.	Seats (Total: 30)

ARHU468A **Peer Mentoring Program; Arts and Humanities' Ambassador Program**

(Perm req)

Credits: 1 Grading Method: Regular

A workshop for sophomore, junior or senior students who wish to serve a peer mentors helping first-year students to cope with the numerous issues which often arise in the transition to the university.

Restricted to current ARHU students who will serve as ambassadors for the College of Arts and Humanities.

0101	J Darius Greene	Seats (Total: 35)
	Th 4:00pm - 5:30pm	LEF 1201

ARHU486 **Internship Practicum in Arts and Humanities**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Prerequisite: Have completed previous internship at U of MD. Restriction: Must be in a major in ARHU-College of Arts & Humanities; and permission of ARHU-College of Arts & Humanities; and minimum cumulative GPA of 2.5; and must have earned a minimum of 60 credits; and completed 12 credits at U of MD.

An internship intended for students who have already completed an internship for credit. ARHU486 must be a different experience from the internship students have already taken for credit. Generally students intern with a different company, but they may continue working for the same company if the job is significantly different. See ARHU internship coordinator for details.

0101	Paula Nadler	Seats (Total: 25)
	Contact instructor or department for details.	

ARHU489 **Advanced Internship Practicum in ARHU**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Designed for students who have already completed at least 2 upper level internship courses for academic credit. It is an advanced practicum to assist students in continuing to develop and hone their professional writing, presentation and analytical skills.

Prerequisite: Permission of the College of Arts and Humanities.

0101	Paula Nadler	Seats (Total: 2)
	Contact instructor or department for details.	

ARMY Army Fall 2018

ARMY106 **Basic Military Science I**

Credits: 3 Grading Method: Regular

Restriction: Students must meet Officer candidate criteria to participate in field training. Repeatable to 3 credits.

Introduction to the personal challenges and competencies that are critical for effective leadership and communication. Develops knowledge and competency in physical fitness through rigorous training and experiential leadership education through leadership laboratories.

0101	Larry Rentz TuTh 11:00am - 12:15pm	Seats (Total: 40) VMH 1203
0102	Larry Rentz MWF 9:00am - 9:50am	Seats (Total: 40) KEY 0126
FC01	Larry Rentz MW 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 40) PLS 1119

ARMY201 **Army Leadership Development**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Sophomore standing or higher.

This course is an intensive examination of the Army Leadership Model in practice. The model is compared to leadership styles and techniques from government and industry and the comparative effectiveness of each. Students form their own personal leadership styles.

0101	Larry Rentz, Heather Hunkus MWF 2:00pm - 2:50pm	Seats (Total: 30) ESJ 2212
0102	Larry Rentz, Heather Hunkus TuTh 12:30pm - 1:45pm	Seats (Total: 30) ESJ 2309

ARMY301 **Advanced Military Leadership I**

Credits: 3 Grading Method: Regular

Reinforces understanding and application of Army leadership strategies, critical decision making methodologies, physical and mental fitness excellence. Includes a laboratory period in applied leadership, common military tasks and physical fitness.

0101	Larry Rentz, Alama Rush Tu 3:30pm - 6:15pm	Seats (Total: 40) ESJ 1309

ARMY401 **Advanced Military Leadership III**

Credits: 3 Grading Method: Regular

Introduces contracted students to the study of Army structure, practice and processes exercised by Army Commanders and Staff in completing personnel, logistics, training and combat operations. Includes a laboratory in applied leadership skills and two field exercises.

0101	Larry Rentz	Seats (Total: 30)
	TuTh 2:00pm - 3:15pm	ESJ 1309

ARMY402 **Advanced Military Leadership IV**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The military system and code of ethics in the military environment is studied. Topics include code of conduct during all forms of military operations, the Geneva Conventions and the ethical decision making process. Also includes a laboratory in applied leadership skills, fitness excellence and two field exercises.

0101	Instructor: TBA	Seats (Total: 10)
	Contact instructor or department for details.	

ARSC Air Science Fall 2018

ARSC059 **Air Force Officer Lab**

Credits: 1 Grading Method: Sat-Fail

Offers Air Force ROTC cadet officer's practical experience in military leadership, management, organization, and customs. May include visits to military installations, weekend laboratories, and flight orientation.

Restriction: Must be an AFROTC cadet. Repeatable to 10 credits if content differs. Formerly: ARSC159. Additional information: This course does not carry any credit toward any degree at the University.

0101	Samuel Richardson	Seats (Total: 220)	
	Th 7:00am - 8:50am	ARM 0126	Lab

ARSC100 **The USAF Today I**

Credits: 1 Grading Method: Regular

Corequisite: AFROTC cadets must also register for ARSC059.

Freshman course for AFROTC cadets. Introduces students to the United States Air Force and encourages participation in Air Force Reserve Officer Training Corps. Featured topics include: overview of ROTC, special programs offered through ROTC, mission and organization of the Air Force, brief history of the Air Force, introduction to leadership and leadership related issues, Air Force Core Values, Air Force officer opportunities, and an introduction to communication studies. Leadership laboratory is mandatory for AFROTC cadets and complements this course by providing cadets with followership experiences.

An elective but required for freshmen desiring the four-year AFROTC program.

0101	Karson Peterson Tu 9:00am - 9:50am	Seats (Total: 27) WDS 1114
0102	Karson Peterson Th 9:00am - 9:50am	Seats (Total: 60) ATL 2324
0103	Karson Peterson Th 10:00am - 10:50am	Seats (Total: 60) ATL 2324

ARSC200 **The Development of Air Power I**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Corequisite: AFROTC cadets must also register for ARSC059.

Sophomore course for AFROTC cadets. Study of factors contributing to th development of air power from its earliest beginnings through two world wars; the evolution of air power concepts and doctrine; introductory leadership; and assessment of communicative skills.

An elective, but required for sophomores in the four-year AFROTC program. Military cadets must also enroll in ARSC 159.

0101	Samuel Richardson Th 10:00am - 10:50am	Seats (Total: 55) TYD 2106
0103	Samuel Richardson Tu 11:00am - 11:50am	Seats (Total: 27) ARM 0118

ARSC300 **Management and Leadership I**

(Perm req)

Credits: 3 Grading Method: Regular

Corequisite: AFROTC cadets must also register for ARSC059; or permission of UGST-AFROTC-Air Science. Restriction: Junior standing or higher.

The study of leadership and management fundamentals, professional knowledge, Air Force doctrine, and written and oral communication skills. Case studies are used to examine leadership and management situations. This course will satisfy credit toward a minor in military studies.

0101	Zachary Crampton, David Bacot Th 9:00am - 12:00pm	Seats (Total: 26) JMZ 0120
0103	Isham Nichols, David Bacot, Zachary Crampton MW 9:30am - 11:00am	Seats (Total: 15) ARM 0118
0201	David Bacot, Zachary Crampton TuTh 12:30pm - 1:45pm	Seats (Total: 20) SKN 1112

ARSC400 **National Security Forces in Contemporary American Society I**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Permission of UGST-AFROTC-Air Science; or (ARSC300 or ARSC301). Corequisite: ARSC059; or permission of UGST-AFROTC-Air Science. Restriction: Senior standing.

Study of American national security policy and processes to include information and implementation, impact of major national and international actors, and development of major policy issues. This course will satisfy credit towards a minor in military studies.

0101	Isham Nichols, David Bacot Th 9:00am - 12:00pm	Seats (Total: 50) HBK 0115
0103	Isham Nichols, David Bacot MW 2:00pm - 3:30pm	Seats (Total: 15) ARM 0118
0201	David Bacot, Isham Nichols TuTh 2:00pm - 3:30pm	Seats (Total: 18) ARM 0118

ARTH Art History & Archaeology Fall 2018

ARTH169A **Special Topics in Study Abroad I; Roman Archaeology On-Site**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARTH169B **Special Topics in Study Abroad I; Arts of Modernity**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARTH169I **Special Topics in Study Abroad I; Art of Rome**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARTH200 **Art and Society in Ancient and Medieval Europe and the Mediterranean**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HA General Education: DSHU, DVUP

Examines the material culture and visual expressions of Mediterranean and European societies from early times until ca. 1300 CE, emphasizing the political, social, and religious context of the works studied, the relationships of the works to the societies that created them, and the interrelationship of these societies.

0101	Emily Egan MW 10:00am - 10:50am M 9:00am - 9:50am	Seats (Total: 25) ASY 2203 ASY 3219	Discussion
0102	Emily Egan MW 10:00am - 10:50am M 11:00am - 11:50am	Seats (Total: 25) ASY 2203 ASY 3219	Discussion
0103	Emily Egan MW 10:00am - 10:50am W 9:00am - 9:50am	Seats (Total: 25) ASY 2203 ASY 3211	Discussion
0104	Emily Egan MW 10:00am - 10:50am W 11:00am - 11:50am	Seats (Total: 25) ASY 2203 ASY 3207	Discussion
0105	Emily Egan MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 25) ASY 2203 ASY 3211	Discussion

0106	Emily Egan MW 10:00am - 10:50am F 9:00am - 9:50am	Seats (Total: 25) ASY 2203 ASY 3219	Discussion

ARTH201 **Art and Society in the West from the Renaissance to the Present**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HA | General Education: DSHU, DVUP

Examines representative European and American works of art from the later Middle Ages to the present, highlighting the dynamic exchange between artistic and cultural traditions both within periods and across time.

0101	Joshua Shannon MW 11:00am - 11:50am M 9:00am - 9:50am	Seats (Total: 25) ASY 2203 ASY 3211	Discussion
0102	Joshua Shannon MW 11:00am - 11:50am Tu 9:30am - 10:20am	Seats (Total: 25) ASY 2203 ASY 3219	Discussion
0103	Joshua Shannon MW 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 25) ASY 2203 ASY 3219	Discussion
0104	Joshua Shannon MW 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 25) ASY 2203 ASY 3219	Discussion
FC01	Abigail Upshaw MW 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 35) ASY 3211	

ARTH230 **Symbolic Images: The Theory and Practice of Iconography in European Art, 1400-1850**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

Iconographic interpretation of visual narratives, signs and symbols has long been a topic of art-historical inquiry. In early modern European art, images were often conceived with the deliberate intent of posing a 'puzzle' or 'problem' for the beholder to solve; yet in most cases we have little or no evidence of how contemporary beholders solved such enigmas. Provides students with the opportunity to take command of these research methods and source materials, addressing a genuine iconographic problem, researching the relevant literature, identifying the essential primary source evidence, making contextually appropriate assumptions, and producing a valid result.

0101	Anthony Colantuono TuTh 11:00am - 12:15pm	Seats (Total: 25) ASY 3215	

ARTH260 **Art and Activism**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU, SCIS

Can art effect social change? How may we use the history of radical and avant-garde art to inform present-day movements and models of artistic and creative activism? This course explores the modern and contemporary history of political art and arts activism on local, national, and global scales.

0101	Abigail McEwen MW 9:00am - 9:50am F 9:00am - 9:50am	Seats (Total: 25) ASY 2203 ASY 3211	Discussion
0102	Abigail McEwen MW 9:00am - 9:50am M 10:00am - 10:50am	Seats (Total: 25) ASY 2203 ASY 3215	Discussion
0103	Abigail McEwen MW 9:00am - 9:50am W 10:00am - 10:50am	Seats (Total: 25) ASY 2203 ASY 3211	Discussion
0104	Abigail McEwen MW 9:00am - 9:50am M 11:00am - 11:50am *This section is restricted to students in Carillon Communities.*	Seats (Total: 25) ASY 2203 ASY 3215	Discussion

ARTH269A **Special Topics in Study Abroad II; Archeology and Art of Ancient Italy**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARTH269P **Special Topics in Study Abroad II; From Medieval to Contemporary: Exploring the Great Art and Architecture of Prague**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARTH269R **Special Topics in Study Abroad II; Art of Renaissance**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARTH292 **Discovering Japan: How the Arts Shaped a Nation**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHU, DVUP

Explores the origins and creation of Japan from ancient to contemporary times through East Asian and European exchange. Acquaints students with painting, sculpture, architecture, ceramics, gardens, and other art forms in relation to the various cultural contexts within which they were produced and used.

0101	Alicia Volk TuTh 11:00am - 11:50am M 9:00am - 9:50am	Seats (Total: 25) ASY 2203 ASY 3207	Discussion
0102	Alicia Volk TuTh 11:00am - 11:50am W 9:00am - 9:50am	Seats (Total: 25) ASY 2203 ASY 3207	Discussion
0103	Alicia Volk TuTh 11:00am - 11:50am W 10:00am - 10:50am	Seats (Total: 25) ASY 2203 ASY 3207	Discussion
0104	Alicia Volk TuTh 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 25) ASY 2203 ASY 3207	Discussion

ARTH305 **Archaeological Methods and Practice**

Credits: 3 Grading Method: Regular General Education: DSHS

Prerequisite: ANTH240, ARTH200, or CLAS180. Also offered as: ANTH305, CLAS305. Credit only granted for: ANTH305, ARTH305, or CLAS305.

A team-taught, interdisciplinary course discussing theories, methods, and ethical issues in the practice of archaeology.

For Fall 2018: Also offered ANTH305, CLAS305, and JWST319Y. Credit will only be granted for ANTH305, ARTH305, CLAS305, or JWST319Y.

0101	Matthew Suriano	Seats (Total: 30)
	MW 2:00pm - 3:15pm	WDS 1114

ARTH321 **Northern European Art of the 16th Century: Art in the Age of Renaissance and Reformation**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Painting in France, Germany, England, and the Low Countries during the Renaissance and Reformation.

0101	Louise Martinez	Seats (Total: 25)
	TuTh 9:30am - 10:45am	ASY 3215

ARTH324 **Leonardo's World: Art and Experience in Renaissance Italy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHU

Painting, sculpture, architecture, and the decorative arts of the sixteenth century in Italy.

We will examine the history of painting, sculpture, architecture, and the decorative arts in Italy from the late fifteenth through the sixteenth centuries.

0101	Meredith Gill	Seats (Total: 25)
	TuTh 11:00am - 12:15pm	ASY 3211

ARTH350 **Twentieth-Century Art to 1945**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTH201.

Painting, sculpture, and architecture in Europe and America from the late nineteenth century to the end of World War II.

0101	Steven Mansbach TuTh 9:30am - 10:45am	Seats (Total: 25) ASY 3211

ARTH359L **Film as Art; Film Noir Style and Neo-Noir**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

The study of film as a visual art, from theoretical, cultural and aesthetic perspectives. Content varies by semester.

0101	Greg Metcalf W 3:30pm - 7:00pm	Seats (Total: 25) ASY 4213A

ARTH362 **Twentieth-Century African-American Art**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Surveys and evaluates the art and visual culture of African Americans from 1900 to the present.

0101	Jordana Saggese TuTh 9:30am - 10:45am	Seats (Total: 20) ASY 3217

ARTH369C **Special Topics in Study Abroad III; The Art of Florence: Exploring Visual Culture**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARTH369G **Special Topics in Study Abroad III; Art Gallery Management**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARTH369P **Special Topics in Study Abroad III; History and Workshop of Latin America Photography**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARTH369Q **Special Topics in Study Abroad III; Patrons and Artists in Baroque Italy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARTH369V **Special Topics in Study Abroad III; Venice in the Renaissance**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARTH386 **Experiential Learning**

Credits: 3-6 Grading Method: Regular, Pass-Fail General Education: DSSP

Prerequisite: Permission of ARHU-Art History & Archaeology department. Restriction: Junior standing or higher.

Supervised internship experience in diverse areas of art historical, archaeological, and museological work.

Contact department for information to register for this course.

ARTH389A **Special Topics in Art History and Archaeology; The Art of Drawing: A Left and Right Brain Experience**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

0101	Beryl Bland W 2:00pm - 4:30pm	Seats (Total: 10) ASY 3217

ARTH389B **Special Topics in Art History and Archaeology; The Art of Color: A Left and Right Brain Experience**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

0101	Beryl Bland F 10:00am - 12:30pm	Seats (Total: 10) ASY 2318

ARTH389L **Special Topics in Art History and Archaeology; Visual Cultures of Islam**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Also offered as AAST298B, HIST219E, PERS298E, and RELS219E. Credit only granted for HIST219E, AAST298B, ARTH389L, PERS298E, or RELS219E. This is a Big Ten Academic Alliance CourseShare course. This course is taught by renownedUniversity of Michigan instructor, Christiane Gruber, an expert in the field of Islamic Art, and digitally shared with the UMD students. In this course, Prof. Gruber explores definitions of "Islamic" art and investigates various visual cultures of Islam around the world from the 7th to the 20th century. The course meets twice a week in real time using video conferencing technology. UMD students are able to enroll directly at UMD for course credit.

0101	Instructor: TBA	Seats (Total: 10)
	MW 11:30am - 1:00pm	HJP 3120

ARTH389M **Special Topics in Art History and Archaeology; Towards a History of the "Selfie": Artist's Portraits, Renaissance to Contemporary**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

0101	Aneta Georgievska-Shine	Seats (Total: 25)
	TuTh 12:30pm - 1:45pm	ASY 3211

ARTH389R **Special Topics in Art History and Archaeology; World Science Fiction Film**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Also offered as FILM359G The goal of this introductory course is, through intensive viewings, readings, and discussions of representative examples of world science fiction film (from Asia, Europe, and the Americas) to examine and understand the critical relevance of science and technology to human conditions.

0101	Jason Kuo	Seats (Total: 25)
	TuTh 11:00am - 12:15pm	HBK 0302J

ARTH488C **Colloquium in Art History; Contemporary Chinese and Chinese American Cinema on Women**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Colloquium to investigate a specific topic in depth.

Also offered as FILM429C and WMST498J. Through a transnational study of major filmmakers from mainland China to Hong Kong, Taiwan, and the Chinese diapora, the course is intended to consider issues of female cinematic authorship, gender and sexuality in cinematic representation, power and knowledge, negotiations of local and global cultural politics.

0101	Jason Kuo	Seats (Total: 10)
	TuTh 12:30pm - 1:45pm	HBK 0302J

ARTH488E **Colloquium in Art History; The Dutch Maritime Empire During its Golden Age**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Colloquium to investigate a specific topic in depth.

In the seventeenth century, the Dutch Maritime Empire stretched across the globe, not only with its mighty warships but also with its massive fleet of cargo ships from the East India and West India Companies.

0101	Henry Gregory	Seats (Total: 10)
	M 3:00pm - 5:30pm	ASY 3215

ARTH489E **Special Topics in Art History; Race, Sexuality, and Gender in Early Modern Italian Art**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Students will investigate the issues of race, sexual orientation, and gender in Early Modern Italian art, considering these categories in works of art, their patrons, and their creators.

0101	Adam Rudolphi	Seats (Total: 18)
	TuTh 12:30pm - 1:45pm	ASY 3217

ARTH489P **Special Topics in Art History; Medieval Building Process**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Also offered as ARCH428N. Credit only granted for ARCH428N or ARTH489P.

0101	Joseph Williams	Seats (Total: 10)
	TuTh 3:30pm - 4:45pm	ARC 1103

ARTH489Z **Special Topics in Art History; Art in London**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

ARTH498 **Directed Studies in Art History I**

(Perm req)

Credits: 2-3

Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

ARTH499 **Honors Thesis**

(Perm req)

Credits: 3-6

Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

ARTH692 **Methods of Art History**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Methods of research and criticism applied to typical art-historical problems; bibliography and other research tools.

For all non-Art History and Archaeology majors, permission of the department is required.

0101	Joshua Shannon	Seats (Total: 6)
	M 2:30pm - 5:00pm	ASY 4304

ARTH708C **Seminar in Ancient Art and Archaeology; Painting the Wine-Dark Sea: Mural Traditions in Bronze Age Greece**

Credits: 3

Grading Method: Regular, Audit

This course explores the earliest traditions of wall painting in ancient Greece, focusing on the period from 1600-1100 BC. Discussions will investigate murals in their archaeological contexts and address issues including iconographic choice and transmission, tools and technology, and modern reconstructions.

0101	Emily Egan	Seats (Total: 6)
	M 12:00pm - 2:30pm	ASY 4304

ARTH779C **Seminar in Japanese Art; Meiji's Modernity: History and Revolution in the Japanese Visual Arts**

Credits: 3

Grading Method: Regular, Audit

0101	Alicia Volk Tu 12:30pm - 3:00pm	Seats (Total: 6) ASY 4304	

ARTH798 **Directed Graduate Studies in Art History**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Contact department for information to register for this course.

ARTH799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

ARTH898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

ARTH899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

ARTT Art Studio Fall 2018

ARTT100 **Two-Dimensional Design Fundamentals**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Principles and elements of two-dimensional design. Introduction to visual communication.

Students must pay a $40.00 laboratory studio fee.

0101	James Thorpe TuTh 12:30pm - 3:00pm	Seats (Total: 18) ASY 2318	Lab
0201	James Thorpe TuTh 12:30pm - 3:00pm	Seats (Total: 18) ASY 2318	Lab
0501	Wendy Jacobs MW 12:30pm - 3:00pm	Seats (Total: 18) ASY 2318	Lab

0601	Wendy Jacobs MW 12:30pm - 3:00pm	Seats (Total: 18) ASY 2318	Lab
0701	Wendy Jacobs MW 3:00pm - 5:30pm	Seats (Total: 18) ASY 2318	Lab
0801	Wendy Jacobs MW 3:00pm - 5:30pm	Seats (Total: 18) ASY 2318	Lab

ARTT110 **Elements of Drawing I**

Credits: 3 Grading Method: Regular, Pass-Fail General Education: DSSP

Fundamental concepts, media, and processes of drawing. Emphasis on observation and representation in combination with individual expression. Subject matter includes still life, human figure, nature, the built environment, and conceptual projects.

Students must pay a $40.00 laboratory studio fee.

0101	Jowita Wyszomirska MW 9:00am - 11:30am	Seats (Total: 18) ASY 2317	Lab
0201	Jowita Wyszomirska MW 9:00am - 11:30am	Seats (Total: 18) ASY 2321	Lab
0501	Leslie Berns TuTh 9:00am - 11:30am	Seats (Total: 18) ASY 2317	Lab
0701	Matthew Robertson MW 3:30pm - 6:00pm	Seats (Total: 18) ASY 2321	Lab
0801	Matthew Robertson MW 3:30pm - 6:00pm	Seats (Total: 18) ASY 2317	Lab
0901	Matthew McLaughlin TuTh 12:30pm - 3:00pm	Seats (Total: 18) ASY 2317	Lab
1001	Matthew McLaughlin TuTh 12:30pm - 3:00pm	Seats (Total: 18) ASY 2321	Lab

1101	Jowita Wyszomirska MW 12:30pm - 3:00pm	Seats (Total: 18) ASY 2321	Lab
1201	Jowita Wyszomirska MW 12:30pm - 3:00pm	Seats (Total: 18) ASY 2317	Lab
FC01	Leslie Berns MW 6:00pm - 8:30pm *Restricted to students in Freshmen Connection.*	Seats (Total: 18) ASY 2317	

ARTT110S **Elements of Drawing I**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

Fundamental concepts, media, and processes of drawing. Emphasis on observation and representation in combination with individual expression. Subject matter includes still life, human figure, nature, the built environment, and conceptual projects.

Restricted to College Park Scholars - Arts. Students must pay a $40.00 laboratory studio fee.

0601	Leslie Berns TuTh 9:00am - 11:30am	Seats (Total: 18) ASY 2321	Lab

ARTT150 **Introduction to Art Theory**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HA | General Education: DSHU

Fundamental concepts of global, philosophic, and critical art theory examined through various historic and contemporary texts, and the analysis of works of art.

0101	Richard Klank MW 1:00pm - 1:50pm M 11:00am - 11:50am	Seats (Total: 25) ASY 2309 ASY 3211	Discussion
0102	Richard Klank MW 1:00pm - 1:50pm W 11:00am - 11:50am	Seats (Total: 25) ASY 2309 ASY 3211	Discussion
0103	Richard Klank MW 1:00pm - 1:50pm W 12:00pm - 12:50pm	Seats (Total: 25) ASY 2309 ASY 3211	Discussion

0201	Rex Weil TuTh 3:30pm - 4:20pm Tu 2:00pm - 2:50pm	Seats (Total: 25) ASY 2309 ASY 3219	 Discussion
0202	Rex Weil TuTh 3:30pm - 4:20pm Th 2:30pm - 3:20pm	Seats (Total: 25) ASY 2309 ASY 3219	 Discussion
0203	Rex Weil TuTh 3:30pm - 4:20pm Th 12:30pm - 1:20pm	Seats (Total: 25) ASY 2309 ASY 3219	 Discussion
FC01	Rex Weil TuTh 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 25) ASY 3211	

ARTT200 **Three-Dimensional Art Fundamentals**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTT100 and ARTT110.

Fundamental concepts of three-dimensional form and space examined through the manipulation and organization of various materials.

Students must pay a $40.00 laboratory studio fee.

0101	Cy Keener MW 9:00am - 11:30am	Seats (Total: 18) ASY 1311	 Lab
0201	Foon Sham TuTh 12:30pm - 3:00pm	Seats (Total: 18) ASY 1311	 Lab
0301	Monroe Isenberg MW 12:30pm - 3:00pm	Seats (Total: 18) ASY 1311	 Lab

ARTT210 **Elements of Drawing II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTT110.

Continuation of ARTT110 with additional emphasis on color, figure drawing, and contemporary issues.

Students must pay a $40.00 laboratory studio fee.

0101	Emily Conover TuTh 12:30pm - 3:00pm	Seats (Total: 16) ASY 2315	 Lab
0201	Clayton Dunklin MW 3:00pm - 5:30pm	Seats (Total: 16) ASY 2315	 Lab
0301	Leah Lewman MW 12:30pm - 3:00pm	Seats (Total: 16) ASY 2315	 Lab
0401	Patrick Craig TuTh 3:00pm - 5:30pm	Seats (Total: 16) ASY 2315	 Lab

ARTT255 **Introduction to Digital Art and Design Processes**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTT100 and ARTT110. Credit only granted for: ARTT255 or ARTT354. Formerly: ARTT354.

Introduction to basic software and principles of digital imaging, and how they are applied to art and design. Topics covered: Digital image construction and manipulation, Vector-Based digital techniques layout, typography, etc), time-based digital techniques (video and audio composition and manipulation), and basic interactivity (web-design). Digital media used to explore visual principles established in ARTT100.

Students must pay a $40.00 laboratory studio fee.

0101	Narendra Ratnapala TuTh 12:30pm - 3:00pm	Seats (Total: 24) ATL 1410	 Lab
0201	Narendra Ratnapala TuTh 3:30pm - 6:00pm	Seats (Total: 24) ATL 1410	 Lab
0301	Shannon Collis MW 1:00pm - 3:30pm	Seats (Total: 24) ATL 1410	 Lab

ARTT269R **Special Topics in Study Abroad II; Art of Renaissance**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARTT320 **Elements of Painting**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.

Concepts and fundamental processes of oil and/or acrylic painting.

Students must pay a $40.00 laboratory studio fee.

0101	Patrick Craig TuTh 12:30pm - 3:00pm *Emphasizes acrlic paint.*	Seats (Total: 18) ASY 3312	Lab
0201	Richard Klank MW 9:00am - 11:30am	Seats (Total: 13) ASY 3322	Lab
0301	Leah Lewman MW 3:30pm - 6:00pm	Seats (Total: 18) ASY 3322	Lab

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ARTT330 **Elements of Sculpture: Metal Casting**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.

Sculptural concepts and fundamental processes related to metal casting.

Students must pay a $40.00 laboratory studio fee.

0101	John Ruppert MW 12:30pm - 3:00pm	Seats (Total: 12) ASY 1310	Lab

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ARTT330H **Elements of Sculpture: Metal Casting**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.

Sculptural concepts and fundamental processes related to metal casting.

Students must pay a $40.00 laboratory studio fee. This course is restricted to departmental honors students only.

0101	John Ruppert	Seats (Total: 2)	
	MW 12:30pm - 3:00pm	ASY 1310	Lab

ARTT331 **Elements of Sculpture: Steel**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.

Sculptural concepts and fundamental processes related to steel fabrication; torch cutting, welding, hot forging, and finishing.

Students must pay a $40.00 laboratory studio fee.

0101	John Ruppert	Seats (Total: 10)	
	MW 3:00pm - 5:30pm	ASY 1314	Lab

ARTT333 **Elements of Sculpture: Wood and Mixed Media**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.

Sculptural concepts and fundamental processes using wood and mixed media.

Students must pay a $40.00 laboratory studio fee.

0101	Foon Sham	Seats (Total: 12)	
	TuTh 3:00pm - 5:30pm	ASY 1311	Lab

ARTT333H **Elements of Sculpture: Wood and Mixed Media**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.

Sculptural concepts and fundamental processes using wood and mixed media.

This course is restricted to departmental honors students only. Students must pay a $40.00 laboratory studio fee.

0101	Foon Sham	Seats (Total: 2)	
	TuTh 3:00pm - 5:30pm	ASY 1311	Lab

ARTT341 **Elements of Printmaking: Woodcut and Relief**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.

Concepts and fundamental processes related to woodcuts, linocuts, and other relief printing media.

There is a $40.00 lab fee for this course.

0101	Lauren Koch	Seats (Total: 10)	
	MW 9:00am - 11:30am	ASY 1317	Lab

ARTT341H **Elements of Printmaking: Woodcut and Relief**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.

Concepts and fundamental processes related to woodcuts, linocuts, and other relief printing media.

There is a $40.00 lab fee for this course. This course is restricted to departmental honors students only.

0101	Lauren Koch	Seats (Total: 2)	
	MW 9:00am - 11:30am	ASY 1317	Lab

ARTT343 **Elements of Printmaking: Screen Printing**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.

Concepts and fundamental processes related to silkscreen printing.

Students must pay a $40.00 laboratory studio fee.

0101	Justin Strom	Seats (Total: 10)	
	TuTh 12:30pm - 3:00pm	ASY 1317	Lab

0201	Justin Strom TuTh 3:30pm - 6:00pm	Seats (Total: 8) ASY 1317	 Lab

ARTT343H **Elements of Printmaking: Screen Printing**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.

Concepts and fundamental processes related to silkscreen printing.

This course is restricted to departmental honors students only. Students must pay a $40.00 laboratory studio fee.

0101	Justin Strom TuTh 12:30pm - 3:00pm	Seats (Total: 2) ASY 1317	 Lab
0201	Justin Strom TuTh 3:30pm - 6:00pm	Seats (Total: 2) ASY 1317	 Lab

ARTT353 **Elements of Photography**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.

Introduction to black-and-white photography. Basic technical and aesthetic vocabulary, camera mechanics and darkroom techniques. Introduction to the photographic message and meaning in both fine art and design concept.

Students must pay a $40.00 laboratory studio fee. SLR film camera required.

Contact department for information to register for this course.

ARTT355 **Intermediate Graphic Design Principles**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: ARTT150, ARTT200, ARTT210, and ARTT255; and must be admitted to the Graphic Design Concentration (Track 3). Credit only granted for: ARTT350 or ARTT355. Formerly: ARTT350.

Investigation of basic concepts, history, techniques, and materials use by professional graphic designers, focusing on typography. Explores various aspects of design related to typography through examination and production of many types of finished work.

Students must pay $40.00 laboratory studio fee.

0101	Anne Kerns	Seats (Total: 25)	
	MW 9:00am - 11:30am	ASY 2322	Lab

ARTT356 **Graphic Design Processes**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: ARTT150, ARTT200, ARTT210, and ARTT255; and must have been admitted to Graphic Design Concentration (Track 3). Credit only granted for: ARTT351 or ARTT356. Formerly: ARTT351.

Explores computer graphics and visual communcation principles in a time-based context. Examination of fundamental design principles through digital projects that involve photo manipulation, digital illustration, layout, animation, and web design.

Students must pay $40.00 laboratory studio fee.

0101	Rieko Chacey	Seats (Total: 25)	
	TuTh 9:00am - 11:30am	ASY 2322	Lab

ARTT369P **Special Topics in Study Abroad III; Spain Seen by Photography**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARTT370 **Elements of Digital Media**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTT150, ARTT200, ARTT210, and ARTT255; or permission of ARHU-Art department.

Exploration of image creation and manipulation, interactivity, and linkages between digital audio and video. Emphasis on issues in contemporary digital art.

Students must pay $40.00 laboratory studio fee.

0101	Brandon Morse	Seats (Total: 14)	
	TuTh 12:30pm - 3:00pm	ASY 3304	Lab

ARTT386 **Experiential Learning**

(Perm req)

Credits: 3-6

Grading Method: Regular, Pass-Fail

Prerequisite: Permission of ARHU-Art department. Restriction: Junior standing or higher.

Contact department for information to register for this course.

ARTT389 **Department of Art Undergraduate Teaching Assistantship**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Individual contractual agreement with faculty/mentor. Individualized assistantship in the teaching of a specified department course offering. Must have previously received an "A" grade for the class to be assisting.

Contact department for information to register for this course.

ARTT399 **Department of Art Research Assistantship**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Individual contractual agreement with faculty/mentor. Individualized experiential learning developed in relation to art-related research issues.

Contact department for information to register for this course.

ARTT409K **Study Abroad Special Topics IV; New Media**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARTT418B **Advanced Drawing Studio; A Contemporary Approach**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Multi-level drawing studio emphasizing advanced concepts and processes related to drawing; emphasis on contemporary art issues and individual directions.

Prerequisite: ARTT150, ARTT200, and ARTT210; plus one 300-level studio course; or permission of department. Students must pay a $40.00 laboratory studio fee. Repeatable to 12 credits. Multi-level drawing studio emphasizing advanced concepts and processes related to drawing; emphasis on contemporary art issues and individual directions.

0101	Steven Jones	Seats (Total: 16)	
	TuTh 12:30pm - 3:00pm	ASY 2314	Lab

0301	Jowita Wyszomirska MW 3:30pm - 6:00pm	Seats (Total: 16) ASY 2314	Lab

ARTT418H **Advanced Drawing Studio; Honors**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Multi-level drawing studio emphasizing advanced concepts and processes related to drawing; emphasis on contemporary art issues and individual directions.

Restricted to departmental honors students only. Students must pay a $40.00 laboratory studio fee.

0101	Steven Jones TuTh 12:30pm - 3:00pm	Seats (Total: 2) ASY 2314	
0301	Jowita Wyszomirska MW 3:30pm - 6:00pm	Seats (Total: 2) ASY 2314	

ARTT428 **Advanced Painting Studio; Painting**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Multi-level painting studio emphasizing advanced concepts and processes related to oil and acrylic painting; emphasis on contemporary art issues and individual directions in chosen media.

Prerequisite: ARTT320 or permission of the department. Students must pay a $40.00 laboratory studio fee. Repeatable to 12 credits. Multi-level painting studio emphasizing advanced concepts and processes related to oil and acrylic painting; emphasis on contemporary art issues and individual directions.

0101	Leslie Berns TuTh 12:30pm - 3:00pm	Seats (Total: 18) ASY 3318	Lab
0201	Emily Conover TuTh 3:30pm - 6:00pm *Emphasizes acrylic paint.*	Seats (Total: 18) ASY 3316	Lab
0301	Richard Klank MW 9:00am - 11:30am	Seats (Total: 8) ASY 3322	Lab

ARTT428H **Advanced Painting Studio; Honors**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Multi-level painting studio emphasizing advanced concepts and processes related to oil and acrylic painting; emphasis on contemporary art issues and individual directions in chosen media.

Restricted to departmental honors students only. Students must pay a $40.00 laboratory studio fee.

0101	Leslie Berns TuTh 12:30pm - 3:00pm	Seats (Total: 2) ASY 3322	
0201	Emily Conover TuTh 3:30pm - 6:00pm *Emphasizes Acrylic Paint*	Seats (Total: 2) ASY 3312	
0301	Richard Klank MW 9:00am - 11:30am	Seats (Total: 2) ASY 3318	

ARTT428X **Advanced Painting Studio; Advanced Painting Studio**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Multi-level painting studio emphasizing advanced concepts and processes related to oil and acrylic painting; emphasis on contemporary art issues and individual directions in chosen media.

Contact department for information to register for this course.

ARTT438A **Advanced Sculpture Studio; Metal Casting and Mixed Media**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Multi-level sculpture studio; continuation of media-specific sculpture courses with emphasis on contemporary art issues and individual directions in chosen media.

Prerequisite: ARTT330 or permission of department. Students must pay a $40.00 studio laboratory fee.

0101	John Ruppert MW 12:30pm - 3:00pm	Seats (Total: 4) ASY 1310	Lab

ARTT438C **Advanced Sculpture Studio; Steel and Mixed Media Sculpture**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Multi-level sculpture studio; continuation of media-specific sculpture courses with emphasis on contemporary art issues and individual directions in chosen media.

Prerequisite: ARTT331 or permission of instructor. Students must pay a $40.00 laboratory studio fee. Repeatable to 12 credits. Multi-level sculpture studio; continuation of media-specific sculpture courses with emphasis on contemporary art issues and individual directions in chosen media.

0101	John Ruppert MW 3:00pm - 5:30pm	Seats (Total: 4) ASY 1314	

ARTT438D **Advanced Sculpture Studio; Wood and Mixed Media**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Multi-level sculpture studio; continuation of media-specific sculpture courses with emphasis on contemporary art issues and individual directions in chosen media.

Students must pay a $40.00 laboratory studio fee. Repeatable to 12 credits. Multi-level sculpture studio; continuation of media-specific sculpture courses with emphasis on contemporary art issues and individual directions in chosen media.

0101	Foon Sham TuTh 3:00pm - 5:30pm	Seats (Total: 4) ASY 1311	Lab

ARTT438H **Advanced Sculpture Studio; Honors Sculpture**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Multi-level sculpture studio; continuation of media-specific sculpture courses with emphasis on contemporary art issues and individual directions in chosen media.

Restricted to departmental honors students only. Students must pay a $40.00 laboratory studio fee.

0101	Foon Sham TuTh 3:00pm - 5:30pm	Seats (Total: 2) ASY 1311	Lab
0201	John Ruppert MW 3:00pm - 5:30pm	Seats (Total: 2) ASY 1314	
0301	John Ruppert MW 12:30pm - 3:00pm	Seats (Total: 2) ASY 1314	Lab

ARTT448E **Advanced Printmaking Studio; Screen Printing**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Multi-level printmaking studio; continuation of media-specific printmaking courses with emphasis on contemporary art issues and individual directions in chosen media.

Prerequisite: ARTT343. Students must pay a $40.00 laboratory studio fee. Multi-level printmaking studio; continuation of media-specific printmaking courses with emphasis on contemporary art issues and individual directions in chosen media.

0201	Justin Strom	Seats (Total: 4)	
	TuTh 3:30pm - 6:00pm	ASY 1317	Lab

ARTT448F **Advanced Printmaking Studio; Advanced Woodcut and Relief**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Multi-level printmaking studio; continuation of media-specific printmaking courses with emphasis on contemporary art issues and individual directions in chosen media.

Prerequisite: ARTT341. Students must pay a $40.00 laboratory studio fee. Multi-level printmaking studio; continuation of media-specific printmaking courses with emphasis on contemporary art issues and individual directions in chosen media.

0101	Lauren Koch	Seats (Total: 4)	
	MW 9:00am - 11:30am	ASY 1317	Lab

ARTT448H **Advanced Printmaking Studio; Honors Printmaking Studio**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Multi-level printmaking studio; continuation of media-specific printmaking courses with emphasis on contemporary art issues and individual directions in chosen media.

Prerequisite: 300-level printmaking course and admission to Department Honors Program. Permission of Department required. Students must pay a $40.00 studio lab fee.

0201	Justin Strom	Seats (Total: 2)	
	TuTh 3:30pm - 6:00pm	ASY 1317	Lab

ARTT454 **Advanced Graphic Design Principles: Design in Society**

(Perm req)

Credits: 3

Grading Method: Regular

Prerequisite: ARTT355 and ARTT356.

Focus on social responsibility and community activism. History and theory of propaganda and advocacy-based design. Students explore current design practices, work individually, and collaborate in teams with non-profits or other clients with community-based or socio-cultural agendas. Research and writing-intensive course.

$40 laboratory studio fee.

0101	Anne Kerns	Seats (Total: 25)	
	MW 12:30pm - 3:00pm	ASY 2322	Lab

ARTT457 **Advanced Interactive Design**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: ARTT357.

Advanced concepts and techniques of interactive design and interactive software. Examination of corporate, client-based, and public service-based interactive graphic design. Emphasis on web-based interactive design structures.

$40 laboratory studio fee.

0101	Rieko Chacey	Seats (Total: 20)	
	TuTh 12:30pm - 3:00pm	ASY 2322	Lab

ARTT460 **Seminar in Art Theory**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Senior standing.

Exploration of relationship between content and processes of art in a contemporary multi-cultural context.

Contact department for information to register for this course.

ARTT468A **Seminar on the Interrelationship Between Art and Art Theory**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The relationship between a student's work and the theoretical context of contemporary art.

Contact department for information to register for this course.

ARTT468W **Seminar on the Interrelationship Between Art and Art Theory; History and Workshop of Latin America Photography**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

The relationship between a student's work and the theoretical context of contemporary art.

Contact department for information to register for this course.

ARTT479A **Advanced Digital Media Studio; Code and Form**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Variable multi-level studio emphasizing advanced concepts and processes related to time-based, projection, installation, interactive, and audio/visual integrated digital art. Emphasis on contemporary art issues and individual directions.

There is a $40.00 studio lab fee. Advanced level course in Digital Media emphasizing contemporary practices and theories in the area of Digital Fabrication. 3-D modeling, 3-D printing and related digital fabrication techniques are covered.

0101	Cy Keener	Seats (Total: 14)	
	MW 3:00pm - 5:30pm	ASY 3304	Lab

ARTT479D **Advanced Digital Media Studio; Immersive and Virtual Environments**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Variable multi-level studio emphasizing advanced concepts and processes related to time-based, projection, installation, interactive, and audio/visual integrated digital art. Emphasis on contemporary art issues and individual directions.

Introduction to the uses of game development software in an artistic context. Practical examination of interactive, immersive and installation art as mediated through the context of real-time computer generated imagery and game engine methodologies.

0101	Mollye Bendell	Seats (Total: 14)	
	TuTh 3:00pm - 5:30pm	ASY 3304	

ARTT479H **Advanced Digital Media Studio; Honors Advanced Digital Media**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Variable multi-level studio emphasizing advanced concepts and processes related to time-based, projection, installation, interactive, and audio/visual integrated digital art. Emphasis on contemporary art issues and individual directions.

Prerequisite: ARTT370. Restricted to Departmental Honors students. Basics of sound recording, mixing, and processing, as well as creative applications of sound used for screen-based practices, performance and installation art. Theoretical concepts central to sound as an artistic medium are also introduced. Students must pay a $40.00 studio lab fee.

0101	Brandon Morse TuTh 3:00pm - 5:30pm *Advanced Code and Form.*	Seats (Total: 2) ASY 3304	
0301	Cy Keener MW 3:00pm - 5:30pm *Honors Code and Form.*	Seats (Total: 2) ASY 3304	Lab

ARTT480H **Honors Seminar**

(Perm req)

Credits: 3 Grading Method: Regular

Team-taught seminar focusing on relationship between student's work and the theoretical context of contemporary art.

Students must pay $40.00 laboratory fee.

0101	Shannon Collis F 10:00am - 1:30pm	Seats (Total: 7) ASY 2311	Lab

ARTT481 **Advanced Specialization Seminar**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Permission of ARHU-Art department.

Seminar combines contemporary art theory, criticism, professional practice and career preparation in relation to students works from all areas of specialization.

0101	Steven Jones Tu 6:00pm - 8:30pm	Seats (Total: 15) ASY 2314

ARTT489C **Advanced Special Topics in Art; Markets and Collecting**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Advanced studio art and theory within the context of a special topic.

0101	Rex Weil	Seats (Total: 15)	
	Th 11:30am - 2:00pm	ASY 3221	

ARTT489I **Advanced Special Topics in Art; Digital Imaging**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Advanced studio art and theory within the context of a special topic.

Prerequisite: ARTT354. Students must pay a $40.00 laboratory studio fee.

Contact department for information to register for this course.

ARTT489N **Advanced Special Topics in Art; Design in Illustration**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Advanced studio art and theory within the context of a special topic.

Prerequisite: ARTT210. This course may not be used to satisfy the studio art elective requirement for the Graphic Design Concentration-Track 3. Students must pay a $40.00 studio lab fee.

0101	James Thorpe	Seats (Total: 20)	
	TuTh 9:00am - 11:30am	ASY 2318	Lab

ARTT489Q **Advanced Special Topics in Art; Front End Web Design and Development**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Advanced studio art and theory within the context of a special topic.

Introduction to modern web development. Design and build websites using HTML, CSS, JavaScript, Bootstrap, and more.

0101	Brandon Morse	Seats (Total: 20)	
	F 12:00pm - 12:50pm	ASY 3304	

ARTT489R **Advanced Special Topics in Art; New Media**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Advanced studio art and theory within the context of a special topic.

Contact department for information to register for this course.

ARTT489W **Advanced Special Topics in Art; Contemporary Issues in Art and Technology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Advanced studio art and theory within the context of a special topic.

0101	Hasan Elahi	Seats (Total: 8)	
	Tu 6:30pm - 9:00pm	JMZ 1226	Discussion

ARTT498A **Directed Studies in Studio Art**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Advanced independent work in Studio Art. Meeting with faculty and studi time arranged.

Students must pay a $40.00 studio lab fee.

Contact department for information to register for this course.

ARTT498B **Directed Studies in Studio Art**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Advanced independent work in Studio Art. Meeting with faculty and studi time arranged.

Students must pay a $40.00 studio lab fee.

Contact department for information to register for this course.

ARTT498H **Directed Studies in Studio Art; Honors Thesis**

(Perm req)

Credits: 2-3 Grading Method: Regular, Pass-Fail, Audit

Advanced independent work in Studio Art. Meeting with faculty and studi time arranged.

Restricted to departmental honors students only. Prerequisite: permission of department. Students must pay a $40.00 studio lab fee.

Contact department for information to register for this course.

ARTT498I **Directed Studies in Studio Art; Animation, Editing, and Special Effects**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Advanced independent work in Studio Art. Meeting with faculty and studi time arranged.

Contact department for information to register for this course.

ARTT618 **Drawing; Drawing**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Independent studies in drawing for advanced special students.

Students must pay a $60.00 studio lab fee.

Contact department for information to register for this course.

ARTT628 **Painting; Painting**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Graduate painting for advanced special students.

Students must pay a $60.00 studio lab fee.

Contact department for information to register for this course.

ARTT638 **Sculpture; Sculpture**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Independent studies in sculpture for advanced special students.

Students must pay a $60.00 studio lab fee.

Contact department for information to register for this course.

ARTT648 **Printmaking; Printmaking**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Independent studies in printmaking for advanced special students.

Students must pay a $60.00 studio lab fee.

Contact department for information to register for this course.

ARTT689W **Special Problems in Studio Art; Contemporary Issues in Art and Technology**

Credits: 3 Grading Method: Regular, Audit

0101	Hasan Elahi	Seats (Total: 4)	
	Tu 6:30pm - 9:00pm	MMH 0110	Discussion

ARTT698A **Directed Graduate Studies in Studio Art**

(Perm req)

Credits: 1-4 Grading Method: Regular, Audit

Independent work. Meetings with faculty and studio time arranged.

Students must pay a $60.00 studio lab fee.

Contact department for information to register for this course.

ARTT698B **Directed Graduate Studies in Studio Art**

(Perm req)

Credits: 1-4 Grading Method: Regular, Audit

Independent work. Meetings with faculty and studio time arranged.

Students must pay a $60.00 studio lab fee.

Contact department for information to register for this course.

ARTT698C **Directed Graduate Studies in Studio Art; Graduate Teaching Practicum**

(Perm req)

Credits: 1-4 Grading Method: Regular, Audit

Independent work. Meetings with faculty and studio time arranged.

Students must pay a $60.00 studio lab fee.

Contact department for information to register for this course.

ARTT699A **Directed Graduate Studies in Studio Art**

(Perm req)

Credits: 1-4 Grading Method: Regular, Audit

Independent graduate studies.

Students must pay a $60.00 studio lab fee.

Contact department for information to register for this course.

ARTT699B **Directed Graduate Studies in Studio Art**

(Perm req)

Credits: 1-4 Grading Method: Regular, Audit

Independent graduate studies.

Students must pay a $60.00 studio lab fee.

Contact department for information to register for this course.

ARTT718 **Drawing; Drawing**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Independent studies in drawing for advanced special students.

Students must pay a $60.00 studio lab fee.

Contact department for information to register for this course.

ARTT728 **Painting; Painting**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Independent studies in painting for advanced special students.

Students must pay a $60.00 studio lab fee.

Contact department for information to register for this course.

ARTT738 **Sculpture; Sculpture**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Independent studies in sculpture for advanced special students.

Students must pay a $60.00 studio lab fee.

Contact department for information to register for this course.

ARTT748 **Printmaking; Printmaking**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Independent studies in printmaking for advanced special students.

Students must pay a $60.00 studio lab fee.

Contact department for information to register for this course.

ARTT768 **Graduate Colloquium**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Examines various aspects of art, art theory and criticism in a contemporary and multi-cultural context. Relates student work to this context.

Students must pay a $60.00 laboratory studio fee.

0101	Justin Strom	Seats (Total: 20)
	Th 6:30pm - 9:30pm	MMH 0401

ARTT798A **Directed Graduate Studies in Studio Art**

(Perm req)

Credits: 1-4 Grading Method: Regular, Audit

Independent graduate studies.

Students must pay a $60.00 studio lab fee.

Contact department for information to register for this course.

ARTT798B **Directed Graduate Studies in Studio Art**

(Perm req)

Credits: 1-4 Grading Method: Regular, Audit

Independent graduate studies.

Students must pay a $60.00 studio lab fee.

Contact department for information to register for this course.

ARTT799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

ASTR Astronomy Fall 2018

ASTR100 **Introduction to Astronomy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: PS General Education: DSNS

Credit only granted for: ASTR100, ASTR101, or ASTR120.

An elementary course in descriptive astronomy, especially appropriate for non-science students. Topics include the Sun, Moon, planets, stars, and nebulae, galaxies, and evolution of the Universe.

0101	Sylvain Veilleux	Seats (Total: 40)	
	TuTh 9:30am - 10:45am	PHY 1412	
	M 1:00pm - 1:50pm	ATL 2400	Discussion

0102	Sylvain Veilleux TuTh 9:30am - 10:45am M 2:00pm - 2:50pm	Seats (Total: 40) PHY 1412 ATL 2400	 Discussion
0103	Sylvain Veilleux TuTh 9:30am - 10:45am M 3:00pm - 3:50pm	Seats (Total: 40) PHY 1412 ATL 2400	 Discussion
0104	Sylvain Veilleux TuTh 9:30am - 10:45am F 10:00am - 10:50am	Seats (Total: 40) PHY 1412 ATL 2400	 Discussion
0105	Sylvain Veilleux TuTh 9:30am - 10:45am F 11:00am - 11:50am	Seats (Total: 40) PHY 1412 ATL 2400	 Discussion
0106	Sylvain Veilleux TuTh 9:30am - 10:45am F 12:00pm - 12:50pm	Seats (Total: 40) PHY 1412 ATL 2400	 Discussion
FC01	Blake Hartley TuTh 6:00pm - 7:15pm F 1:00pm - 1:50pm *Restricted to students in Freshmen Connection.*	Seats (Total: 38) ATL 2400 ATL 2400	 Discussion

ASTR101 **General Astronomy**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | CORE: PL | General Education: DSNL

Credit only granted for: ASTR100, ASTR101, or ASTR120.

Descriptive astronomy, appropriate for non-science majors. Sun, moon, planets, stars, nebulae, galaxies and evolution. Laboratory exercises include use of photographic material, computer simulations, and standard laboratory equipment.

Discussion sections and lab sections do not meet the first week of classes. Attend lecture before coming to discussion or lab sections.

0101	Stuart Vogel TuTh 11:00am - 12:15pm Tu 5:30pm - 7:30pm Tu 3:30pm - 4:20pm	Seats (Total: 18) PHY 1412 ATL 0254 ATL 2400	 Lab Discussion

0102	Stuart Vogel TuTh 11:00am - 12:15pm W 8:30am - 10:30am Tu 3:30pm - 4:20pm	Seats (Total: 20) PHY 1412 ATL 0254 ATL 2400	 Lab Discussion
0103	Stuart Vogel TuTh 11:00am - 12:15pm W 11:00am - 1:00pm W 10:00am - 10:50am	Seats (Total: 20) PHY 1412 ATL 0254 ATL 2400	 Lab Discussion
0104	Stuart Vogel TuTh 11:00am - 12:15pm Th 3:30pm - 5:30pm W 10:00am - 10:50am	Seats (Total: 20) PHY 1412 ATL 0254 ATL 2400	 Lab Discussion
0105	Stuart Vogel TuTh 11:00am - 12:15pm W 1:00pm - 3:00pm W 11:00am - 11:50am	Seats (Total: 18) PHY 1412 ATL 0254 ATL 2400	 Lab Discussion
0106	Stuart Vogel TuTh 11:00am - 12:15pm Th 8:30am - 10:30am W 11:00am - 11:50am	Seats (Total: 20) PHY 1412 ATL 0254 ATL 2400	 Lab Discussion
0107	Stuart Vogel TuTh 11:00am - 12:15pm W 6:00pm - 8:00pm W 12:00pm - 12:50pm	Seats (Total: 18) PHY 1412 ATL 0254 ATL 2400	 Lab Discussion
0108	Stuart Vogel TuTh 11:00am - 12:15pm Th 6:00pm - 8:00pm W 12:00pm - 12:50pm	Seats (Total: 18) PHY 1412 ATL 0254 ATL 2400	 Lab Discussion
0109	Stuart Vogel TuTh 11:00am - 12:15pm F 9:00am - 11:00am W 1:00pm - 1:50pm	Seats (Total: 20) PHY 1412 ATL 0254 ATL 2400	 Lab Discussion

0110	Stuart Vogel TuTh 11:00am - 12:15pm F 12:00pm - 2:00pm W 1:00pm - 1:50pm	Seats (Total: 20) PHY 1412 ATL 0254 ATL 2400	 Lab Discussion
FC01	Blake Hartley TuTh 6:00pm - 7:15pm M 6:00pm - 8:00pm F 1:00pm - 1:50pm *Restricted to students in Freshmen Connection.*	Seats (Total: 15) ATL 2400 ATL 0254 ATL 2400	 Lab Discussion

ASTR120 **Introductory Astrophysics - Solar System**

Credits: 3 Grading Method: Regular CORE: PS General Education: DSNS

Prerequisite: Must have completed or be concurrently enrolled in MATH140. Restriction: Must not have completed ASTR101 or ASTR100. Credit only granted for: ASTR100, ASTR101, or ASTR120.

For students majoring in astronomy or with a strong interest in science Topics include development of astronomy, planetary orbits, electromagnetic radiation, telescopes as well as constituents and origin of the solar system (planets, satellites, comets, asteroids, meteoroids, etc.).

0101	Michael Miller TuTh 11:00am - 12:15pm F 1:00pm - 1:50pm	Seats (Total: 15) ATL 2400 ATL 1114	 Discussion
0102	Michael Miller TuTh 11:00am - 12:15pm F 2:00pm - 2:50pm	Seats (Total: 15) ATL 2400 ATL 1114	 Discussion

ASTR230 **The Science and Fiction of Planetary Systems**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: PS General Education: DSNS, SCIS

Prerequisite: Must have math eligibility of MATH115 or higher; or MATH113.

Have you ever wondered if humans will ever terraform Mars or Europa so we could live there without a spacesuit? Has it ever crossed your mind how lucky you are that you live on a water-rich planet with an oxygen-rich atmosphere? Have you ever suspected novelists and scriptwriters of creating ridiculous planets that violate scientific laws? Does the fate of our planet's thin biosphere keep you up at night? How common is life in the Universe? These are difficult questions, but armed with the right information, you can answer all of them. The Science and Fiction of Planetary Systems will help you develop a deeper understanding of why planets are the way they are. Along the way, you'll see examples of mistakes made in classic science fiction movies, novels and short stories and get the chance to invent your own plausible planets!

0101	Alan Peel W 9:00am - 9:50am MWF 12:00pm - 12:50pm	Seats (Total: 36) KEY 0106 ESJ B0320	Discussion
0102	Alan Peel W 9:00am - 9:50am MWF 1:00pm - 1:50pm	Seats (Total: 36) KEY 0106 ESJ B0320	Discussion
0103	Alan Peel W 9:00am - 9:50am MWF 2:00pm - 2:50pm	Seats (Total: 36) KEY 0106 ESJ B0320	Discussion
0104	Alan Peel W 9:00am - 9:50am MWF 10:00am - 10:50am	Seats (Total: 36) KEY 0106 ATL 1114	Discussion
0105	Alan Peel W 9:00am - 9:50am MWF 11:00am - 11:50am	Seats (Total: 36) KEY 0106 TWS 1310	Discussion

ASTR288 **Special Projects in Astronomy**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail

Independent study, short research projects, tutorial reading, and assisting with faculty research and teaching under special supervision.

A faculty sponsor must be found by the students prior to enrollment.

Contact department for information to register for this course.

ASTR288C **Special Projects in Astronomy; Astronomy Research Techniques**

(Perm req)

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Independent study, short research projects, tutorial reading, and assisting with faculty research and teaching under special supervision.

0101	Sean Griffin, Amy Lien M 3:30pm - 5:15pm	Seats (Total: 10) ATL 0201

ASTR288I **Special Projects in Astronomy; Introduction to the Astronomy Major**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Independent study, short research projects, tutorial reading, and assisting with faculty research and teaching under special supervision.

Prerequisite: permission of department.

0101	Andrew Harris, Melissa Hayes-Gehrke M 4:00pm - 4:50pm	Seats (Total: 20) ATL 1114
0201	Melissa Hayes-Gehrke, Andrew Harris Tu 4:00pm - 4:50pm	Seats (Total: 20) ATL 2416

ASTR288P **Special Projects in Astronomy; Introduction to Astonomical Programming**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Independent study, short research projects, tutorial reading, and assisting with faculty research and teaching under special supervision.

Prerequisite: Permission of CMNS-Astronomy department required. Must have completed or be concurrently enrolled in ASTR121. Astronomy students are provided with the basics of using the Unix/Linux operating system and scientific programming using either C or Python.

0101	Konstantinos Kalapotharakos F 2:00pm - 4:00pm	Seats (Total: 8) ATL 0224

ASTR300 **Stars and Stellar Systems**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSNS

Prerequisite: ASTR100 or ASTR101; and completion of the CORE Distributive Studies requirement in Mathematics and Sciences or General Education Fundamental Studies requirement in Mathematics. Or permission of CMNS-Astronomy department.

Designed primarily for non-science majors. Study of stars-types, properties, evolution, and distribution in space; supernovae, pulsars, and black holes.

0101	A Sharma	Seats (Total: 60)	
	TuTh 11:00am - 12:15pm	ESJ 2309	

ASTR310 **Observational Astronomy**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Prerequisite: ASTR121; and (PHYS171 or PHYS161). Or permission of CMNS-Astronomy department. Restriction: Must be in Astronomy program.

Introduction to current optical observational techniques, with brief coverage of infrared, ultraviolet, and x-ray techniques. Statistics, spherical trigonometry time, catalogs, geometrical and physical optics, telescopes, and optical instruments. Effects of the atmosphere. Practical work at the observatory using a CCD camera. Some nighttime observing sessions.

0101	Melissa Hayes-Gehrke	Seats (Total: 10)	
	TuTh 2:00pm - 3:15pm	ATL 1114	
	M 9:00am - 10:50am	ATL 0224	Lab
0102	Melissa Hayes-Gehrke	Seats (Total: 10)	
	TuTh 2:00pm - 3:15pm	ATL 1114	
	M 1:00pm - 2:50pm	ATL 0224	Lab

ASTR330 **Solar System Astronomy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSNS

Prerequisite: ASTR100 or ASTR101; and completion of the CORE Distributive Studies requirement in Mathematics and Sciences or the General Education Fundamental Studies requirement in Mathematics. Or permission of CMNS-Astronomy department. Credit only granted for: ASTR330 or GEOL212.

Designed primarily for non-science majors. The structure of planets and of their atmospheres, the nature of comets, asteroids, and satellites. Comparison of various theories for the origin of the solar system. Emphasis on a description of recent data and interpretation.

0101	Timothy Livengood	Seats (Total: 60)	
	TuTh 9:30am - 10:45am	ATL 2400	

ASTR340 **Origin of the Universe**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSNS

Prerequisite: ASTR100 or ASTR101; and completion of the CORE Distributive Studies requirement in Mathematics and Sciences or General Education Fundamental Studies requirement in Mathematics. Or permission of CMNS-Astronomy department.

Designed primarily for non-science majors. A study of our progression of knowledge about the universe. Topics include: early cosmological models, geocentric vs. heliocentric theory, curvature of space, Hubble's Law, Big Bang Theory, microwave background radiation, evolution of stars and galaxies, dark matter, active galaxies, quasars and the future of the universe.

0101	Massimo Ricotti	Seats (Total: 60)
	TuTh 12:30pm - 1:45pm	ATL 2400

ASTR380 **Life in the Universe - Astrobiology**

Credits: 3 | Grading Method: Regular, Audit | General Education: DSNS

Designed primarily for non-science majors. Study of the astronomical perspective on the conditions for the origin and existence of life in the universe.

0101	Michael Corcoran, Kenji Hamaguchi	Seats (Total: 80)
	TuTh 2:00pm - 3:15pm	ATL 2400

ASTR399 **Honors Seminar**

(Perm req)

Credits: 1-16 | Grading Method: Regular, Pass-Fail, Audit

Credit according to work done.

Contact department for information to register for this course.

ASTR415 **Computational Astrophysics**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ASTR121; and (PHYS271 and PHYS270; or PHYS273). Or permission of CMNS-Astronomy department.

Introduction to the most important computational techniques being used in research in astrophysics. Topics include modern high performance computer architectures, scientific visualization and data analysis, and detailed descriptions of numerical algorithms for the solution to a wide range of mathematical systems important in astrophysics.

0101	Derek Richardson TuTh 3:30pm - 4:45pm	Seats (Total: 20) ATL 1114

ASTR421 **Galaxies**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ASTR121; and (PHYS271 and PHYS270; or PHYS273). Or permission of CMNS-Astronomy department.

Introduction to structure, kinematics, and dynamics of normal and peculiar galaxies. Quantitative descriptions of normal spiral galaxies (like our Milky Way) and elliptical galaxies will be followed by more exotic considerations such as interacting and merging galaxies, and active galactic nuclei.

0101	Richard Mushotzky TuTh 12:30pm - 1:45pm	Seats (Total: 30) ATL 2330

ASTR498 **Special Problems in Astronomy**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

Research or special study. Credit according to work done.

Contact department for information to register for this course.

ASTR601 **Radiative Processes**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of CMNS-Astronomy department.

Emission, absorption, and scattering of radiation by matter, with astrophysical applications. Thermodynamics and statistical mechanics: LTE, Boltzmann, and Saha equations; radiative transfer; atomic and molecular radiation; plasma radiation and transfer: bremsstrahlung, synchrotron emission, Compton scattering.

0101	Eliza Kempton TuTh 12:30pm - 1:45pm	Seats (Total: 20) ATL 0201

ASTR610 **Astronomical Instrumentation and Techniques**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of CMNS-Astronomy department.

Review of Maxwell's equations; designs of telescopes, spectrographs, modern detectors; basic concepts for radio detectors and telescopes; interferometry and data processing.

0101	Alberto Bolatto	Seats (Total: 20)
	TuTh 2:00pm - 3:15pm	ATL 0201

ASTR630 **Planetary Science**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of CMNS-Astronomy department. Credit only granted for: ASTR630 or ASTR688P. Formerly: ASTR688P.

The science of our planetary system with an emphasis on the aspects of it, that help us understand the origin of the system and thus the relevance to other planetary systems. Topics will include planetary atmospheres, surfaces, and interiors and the small bodies of the solar system (asteroids, comets, Kuiper-belt objects). We will consider the dynamics of these bodies and the physics and chemistry of these bodies.

0101	Douglas Hamilton	Seats (Total: 20)
	MW 2:00pm - 3:15pm	ATL 0201

ASTR688B **Special Topics in Modern Astronomy; Current Astronomy Research**

(Perm req)

Credits: 1-3 Grading Method: Regular

Special topics such as extragalactic radio sources, plasma astrophysics, the H.R. diagram, chemistry of the interstellar medium, radiophysics of the sun.

0101	Michael Miller	Seats (Total: 30)
	W 3:30pm - 5:30pm	ATL 2400

ASTR695 **Introduction to Research**

(Perm req)

Credits: 1 Grading Method: Sat-Fail

Provides an introduction to research programs in the Department of Astronomy and a forum to explore possible research projects. Aimed at incoming graduate students.

0101	Michael Miller	Seats (Total: 20)
	M 5:00pm - 5:50pm	Location: TBA

ASTR699 **Special Problems in Advanced Astronomy**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

ASTR799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

ASTR898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

ASTR899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

BCHM Biochemistry Fall 2018

The College of Computer, Mathematical and Natural Sciences enforces course prerequisites. Students who do not meet the course prerequisites will be administratively dropped from the course. Registration in course sections which begin with "SEF" are restricted to Post-Baccalaureate students who enroll through the Science in the Evening Program in the College of Computer, Mathematical and Natural Sciences. Please note that this class is charged at the regular part-time tuition rate (on a per credit basis), even for full- time students. To register or to learn more about the Science in the Evening program, you must contact the Life Sciences Outreach and Special Programs Office at (301) 405-6892.*

BCHM461 **Biochemistry I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in CHEM271 and CHEM272; or minimum grade of C- in CHEM276 and CHEM277. Credit only granted for: BCHM461 or BCHM463.

First semester of a comprehensive introduction to modern biochemistry. Structure, chemical properties, and function of proteins and enzymes, carbohydrates, lipids, and nucleic acids. Basic enzyme kinetics and catalytic mechanisms.

0101	Dorothy Beckett TuTh 9:30am - 10:45am	Seats (Total: 110) CHM 1402
0102	Nicole LaRonde MW 4:00pm - 5:15pm	Seats (Total: 110) CHM 1402

0103	Douglas Julin TuTh 12:30pm - 1:45pm	Seats (Total: 105) CHM 1402

BCHM462 **Biochemistry II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in BCHM461. Credit only granted for: BCHM462 or BCHM463.

A continuation of BCHM 461. Metabolic pathways and metabolic regulation energy transduction in biological systems, enzyme catalytic mechanisms.

0102	Douglas Julin MWF 11:00am - 11:50am	Seats (Total: 100) CHM 1402

BCHM463 **Biochemistry of Physiology**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Minimum grade of C- in CHEM271 and CHEM272; or minimum grade of C- in CHEM276 and CHEM277. Credit only granted for: BCHM461, BCHM462 or BCHM463.

A one-semester introduction to general biochemistry. A study of protein structure, enzyme catalysis, metabolism, and metabolic regulation with respect to their relationship to physiology.

0101	Christiana Guest TuTh 11:00am - 12:15pm	Seats (Total: 125) CHM 1402
0103	Bonnie Dixon MWF 12:00pm - 12:50pm	Seats (Total: 125) CHM 1402
SEF1	Bonnie Dixon M 6:30pm - 9:30pm *Restricted to students in the SIE Program. Click here for more information.*	Seats (Total: 40) CHM 2201
SG91	Diana Zhang MW 9:30am - 10:45am *Registration is restricted to Biological Sciences-Shady Grove majors. Permission is required for all other students to enroll in courses at Shady Grove. Please email usgbiosci@umd.edu for permission.*	Seats (Total: 40) BLD2 3012

BCHM464 **Biochemistry Laboratory**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BCHM461 or BCHM463; and a grade of C- or better in the prerequisite is required for all College of Computer, Mathematical, and Natural Sciences majors and recommended for all students. Corequisite: BCHM465. Restriction: BCHM, CHEM, and Nutritional Sciences majors have first priority, followed by other life science majors.

Biochemical and genetic methods for studying protein function. Site-directed mutagenesis and molecular cloning, protein purification, enzyme activity assays, computer modeling of protein structure.

Students must pay a $40.00 laboratory materials fee.

0101	Christopher Capp Tu 12:30pm - 1:20pm Th 12:30pm - 5:30pm	Seats (Total: 18) CHM 1224 ESJ 0316	 Lab
0102	Christopher Capp Tu 12:30pm - 1:20pm W 12:00pm - 5:00pm	Seats (Total: 18) CHM 1224 ESJ 0316	 Lab

BCHM465 **Biochemistry III**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: CS

Prerequisite: BCHM461 or BCHM463; and a grade of C- or better in the prerequisite is required for College of Computer, Mathematical, and Natural Sciences majors and recommended for all students. Recommended: BCHM462.

CORE Capstone (CS) Course. An advanced course in biochemistry. Biochemical approach to cellular information processing. DNA and RNA structure. DNA replication, transcription, and repair. Translation of mRNA to make proteins.

0101	Theodore Dayie TuTh 8:00am - 9:15am	Seats (Total: 80) CHM 1402	

BCHM661 **Nucleic Acids I**

Credits: 2 Grading Method: Regular, Audit

Prerequisite: BSCI410 and BCHM465.

Topics covered: Chemistry and structure of DNA and RNA, from nucleotide to chromatin, chromosomes, and genomes, and some methods for studying, synthesizing, sequencing and manipulating nucleic acids. Rudimentary genomics and bioinformatics. DNA Biology: selected aspects of the biochemistry and regulation of DNA replication, repair, and recombination, and how these processes interact with each other.

0101	Jason Kahn	Seats (Total: 30)
	Meets August 27, 2018 - October 12, 2018	
	MWF 9:30am - 10:50am	BSB 2118

BCHM662 **Nucleic Acids II**

Credits: 2 Grading Method: Regular, Audit

Prerequisite: BCHM661.

Topics covered: Interactions between nucleic acids and ligands such as cations, drugs, and especially proteins. Sources of binding affinity and specificity. Selection-amplification methods. Description of several classes of protein-nucleic acids complexes. DNA/RNA catalysis, the origin of life, mobile genetic elements.

0101	Paul Paukstelis	Seats (Total: 30)
	Meets October 15, 2018 - December 10, 2018	
	MWF 9:30am - 10:50am	BSB 2118

BCHM669A **Special Topics in Biochemistry; Methods for Structural Determination in Solution**

Credits: 1-3 Grading Method: Regular, Audit

0101	David Fushman	Seats (Total: 10)
	MW 11:00am - 12:15pm	BMS 2118

BCHM669C **Special Topics in Biochemistry; Protein Folding and Disease**

Credits: 3 Grading Method: Regular, Audit

0101	John Orban **Meets August 27, 2018 - October 12, 2018** TuTh 2:00pm - 4:40pm	Seats (Total: 10) PLS 1125

BCHM669D **Special Topics in Biochemistry; Drug Discovery**

Credits: 3 Grading Method: Regular, Audit

0101	Osnat Herzberg **Meets October 15, 2018 - December 10, 2018** TuTh 2:00pm - 4:40pm	Seats (Total: 10) PLS 1125

BCHM671 **Protein Chemistry and Enzymic Catalysis**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: BCHM461; or students who have taken courses with comparable content may contact the department.

Principles of protein structure, folding, and function, experimental characterization of structure, active sites, enzyme mechanisms and kinetics.

0101	Jinwoo Lee TuTh 9:30am - 10:50am	Seats (Total: 35) BSB 2118

BCHM698 **Literature Seminar in Biochemistry**

Credits: 2 Grading Method: Regular

Students will prepare and present a departmental seminar based on a topic in the current biochemical research literature.

0101	Instructor: TBA Contact instructor or department for details.	Seats (Total: 10)

BCHM699 **Special Problems in Biochemistry**

Credits: 1-6 Grading Method: Regular, Audit

Laboratory experience in a research environment. Restricted to students in the non-thesis M.S. option.

Open only to non-thesis M.S. degree candidates.

Contact department for information to register for this course.

BCHM799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

BCHM889A **Seminar; Biochemistry**

Credits: 1 Grading Method: Regular, Audit

0101	Jason Kahn	Seats (Total: 40)
	Tu 11:00am - 11:50am	CHM 0112

BCHM889C **Seminar; Allostery in DNA Binding**

(Perm req)

Credits: 1 Grading Method: Regular, Audit

0101	Instructor: TBA	Seats (Total: 10)
	Contact instructor or department for details.	

BCHM889D **Seminar; Enzymology Recombination**

(Perm req)

Credits: 1 Grading Method: Regular, Audit

0101	Instructor: TBA	Seats (Total: 10)
	Contact instructor or department for details.	

BCHM889F **Seminar; Antimicrobial Peptides**

(Perm req)

Credits: 1 Grading Method: Regular, Audit

0101	Instructor: TBA	Seats (Total: 10)
	Contact instructor or department for details.	

BCHM889J **Seminar; Nucleic Acid Structures**

(Perm req)

Credits: 1 Grading Method: Regular, Audit

0101	Instructor: TBA	Seats (Total: 10)
	Contact instructor or department for details.	

BCHM889M **Seminar; Modern Methods in NMR and Structural Biology**

Credits: 1-3 Grading Method: Regular, Audit

0101	Instructor: TBA	Seats (Total: 40)
	Contact instructor or department for details.	

BCHM889P **Seminar; Structure and Reactivity of Biopolymers**

(Perm req)

Credits: 1 Grading Method: Regular, Audit

0101	Instructor: TBA	Seats (Total: 10)
	Contact instructor or department for details.	

BCHM898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

BCHM899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

BEES Behavior, Ecology, Evolution and Systematics — Fall 2018

BEES608A **Seminar in Behavior, Ecology, Evolution and Systematics; Introduction to BEES: Behavior, Ecology, Evolution, and Systematics**

Credits: 1 Grading Method: Regular

One seminar per week for each subject selected: Behavior; Ecology; Evolution; Systematics; Behavior, Ecology, Evoultion and Systematics.

Restricted to BISI program students.

0101	Eric Haag	Seats (Total: 20)
	W 6:00pm - 8:00pm	BPS 1208

BEES799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

BEES898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

BEES899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

BIOE Bioengineering Fall 2018

BIOE120 **Biology for Engineers**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in MATH140. Restriction: Permission of ENGR-Fischell Department of Bioengineering department.

Introduction to the functions and interactions of biological systems from a quantitative perspective. Introduction to the modern experimental techniques and methods of data analysis. Roles for bioengineers in biology, and the role of biology in bioengineering will be elucidated.

Students will be introduced to the functions and interactions of biological systems from a quantitative perspective. They will also be encourage d to solve problems through active inquiry, critical analysis,and creat ivity. Finally, roles for bioengineers in biology, and the role of biology in bioengineering will be elucidated.

0101	Angela Jones TuTh 8:00am - 9:15am F 11:00am - 11:50am	Seats (Total: 36) AJC 2119 AJC 2132	 Discussion
0201	Angela Jones MWF 12:00pm - 12:50pm W 1:00pm - 1:50pm	Seats (Total: 36) AJC 2134 AJC 2134	 Discussion
0301	Angela Jones TuTh 9:30am - 10:45am Th 2:00pm - 2:50pm	Seats (Total: 45) AJC 2132 CHE 2118	 Discussion

BIOE121 **Biology for Engineers Laboratory**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in BIOE120. Restriction: Permission of ENGR-Fischell Department of Bioengineering department.

Bioengineering encompasses numerous sub-disciplines that apply engineering principles to analyze biological systems and that utilize engineering design strategies to solve biological and biomedical problems. This course is aimed at providing students with the opportunity to learn how biology and engineering can synergistically contribute to our understanding of such problems, and to gain hands-on experience in basic techniques relevant to Bioengineering.

0101	Angela Jones M 4:00pm - 4:50pm W 8:00am - 10:00am	Seats (Total: 20) KEB 1110 AJC 1121	 Lab
0102	Angela Jones M 4:00pm - 4:50pm W 2:00pm - 4:00pm	Seats (Total: 20) KEB 1110 AJC 1121	 Lab
0103	Angela Jones M 4:00pm - 4:50pm Th 11:00am - 1:00pm	Seats (Total: 20) KEB 1110 AJC 1121	 Lab
0104	Angela Jones M 4:00pm - 4:50pm Th 2:00pm - 4:00pm	Seats (Total: 20) KEB 1110 AJC 1121	 Lab

BIOE221 **Academic and Career Planning**

(Perm req)

Credits: 1 Grading Method: Regular

Prerequisite: BIOE120 and BIOE121. Restriction: Permission of ENGR-Fischell Department of Bioengineering department.

Provides practical tools to help Bioengineering majors think critically about their goals and career paths. Guides Bioengineering students through accessing useful resources both on- and off-campus.

0101	Abby Shantzis Tu 5:00pm - 5:50pm	Seats (Total: 30) AJC 2119	

0201	Bill Churma Tu 5:00pm - 5:50pm	Seats (Total: 30) AJC 2134	

BIOE232 **Bioengineering Thermodynamics**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS261 and PHYS260. Restriction: Permission of ENGR-Fischell Department of Bioengineering department. Credit only granted for: BIOE232, ENES232, ENME232, or ENME320.

A quantitative introduction to thermodynamic analysis of bioengineering systems. Bioengineering encompasses a wide range of applications from nanoscale interactions (e.g. reactions between molecules), to cellular interactions (e.g. membrane electrical currents), to overall balances on organisms, all the way to large scale manufacturing. Each of these applications (and many others not mentioned) involve energy interactions which is the domain of thermodynamics. The basic laws of thermodynamics will be introduced and explained through a series of examples related to bioengineering systems.

0101	Jose Aranda-Espinoza TuTh 11:00am - 12:15pm F 1:00pm - 1:50pm	Seats (Total: 30) KEB 1200 AJC 2132	Discussion
0102	Jose Aranda-Espinoza TuTh 11:00am - 12:15pm F 2:00pm - 2:50pm	Seats (Total: 30) KEB 1200 AJC 2132	Discussion

BIOE241 **Biocomputational Methods**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of ENGR-Fischell Department of Bioengineering department.

Application of computer technology to biological and natural resource systems considering engineering aspects. Designed to help students in the use of computer technology for problem solving. The course will cover 4-5 software packages important for later use by the student.

0101	Hubert Montas MWF 4:00pm - 4:50pm	Seats (Total: 30) KEB 2107	
0201	Hubert Montas MWF 5:00pm - 5:50pm	Seats (Total: 30) KEB 2111	

BIOE331 **Biofluids**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: MATH246, BIOE120, BIOE121, and BIOE241; and must have completed or be concurrently enrolled in BIOE232. Restriction: Permission of ENGR-Fischell Department of Bioengineering department. Credit only granted for: BIOE331, ENCE305, or ENME331.

Principles and applications of fluid mechanics with a focus on bioengineering topics. Content includes conservation of mass, momentum, and energy, as well as the application of these fundamental relations to hydrostatics, control volume analysis, internal and external flow, and boundary layers. Applications to biological and bioengineering problems such as tissue engineering, bioprocessing, imaging, and drug delivery.

0101	Gregg Duncan	Seats (Total: 30)	
	TuTh 2:00pm - 3:15pm	SPH 1303	
	F 1:00pm - 2:50pm	AJC 2121	Discussion
0102	Gregg Duncan	Seats (Total: 30)	
	TuTh 2:00pm - 3:15pm	SPH 1303	
	F 3:00pm - 4:50pm	AJC 2132	Discussion

BIOE340 **Modeling Physiological Systems and Lab**

(Perm req)

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI330, BIOE120, BIOE121, BIOE241, and MATH246. Restriction: Permission of ENGR-Fischell Department of Bioengineering department. Credit only granted for: BIOE340 or (BSCI440 and BSCI441).

Topics covered will include cell and general physiology, membrane physiology, blood cells and clotting, circulation, metabolism, respiration, and the nervous system. A lab component will also be included.

0101	John Fisher	Seats (Total: 30)	
	TuTh 3:30pm - 4:45pm	KEB 1200	
	Th 5:00pm - 6:30pm	KEB 2111	Lab
	Tu 5:00pm - 5:50pm	ATL 2400	Discussion
	Lab will meet in either KEB2107 or KEB2111.		
0102	John Fisher	Seats (Total: 30)	
	TuTh 3:30pm - 4:45pm	KEB 1200	
	Th 5:00pm - 6:30pm	KEB 2107	Lab
	M 10:00am - 10:50am	KEB 1200	Discussion

BIOE371 **Linear Systems and Ordinary Differential Equations for Bioengineering Applications**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in MATH246. Restriction: Permission of ENGR-Fischell Department of Bioengineering department.

This class utilizes fundamentals in linear systems, including eigenvalues and eigenvectors, as well as linear differential equations, to study various problems in bioengineering and biological systems, with a particular emphasis on feedback, stability, controllability, and control design.

0101	Lan Ma MWF 11:00am - 11:50am	Seats (Total: 60) KEB 1200	

BIOE372 **Biostatistics for Experimental Design and Data Analysis**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: BIOE120, BIOE121, and BIOE241. Recommended: MATH246. Restriction: Permission of ENGR-Fischell Department of Bioengineering department. Credit only granted for: BIOE372 or STAT464.

This course will instruct students in the fundamentals of probability and statistics through examples in biological phenomenon, the design of bioengineering experiments, and clinical data analysis. Fundamentals covered in the course include probability distributions, hypothesis testing, power analysis, regression analysis, and correlation analysis.

0101	Giuliano Scarcelli TuTh 8:00am - 9:15am F 10:00am - 10:50am	Seats (Total: 30) KEB 1200 AJC 2119	 Discussion
0102	Giuliano Scarcelli TuTh 8:00am - 9:15am F 11:00am - 11:50am	Seats (Total: 30) KEB 1200 AJC 2121	 Discussion

BIOE399 **Independent Study in Bioengineering**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Independent study.

Prerequisite: permission of department.

Contact department for information to register for this course.

BIOE399H **Independent Study in Bioengineering**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Independent study.

Contact department for information to register for this course.

BIOE404 **Biomechanics**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH246, BIOE120, ENES102, BIOE121, and BIOE241. Restriction: Permission of ENGR-Fischell Department of Bioengineering department.

Introduction to the fundamentals of biomechanics including force analysis, mechanics of deformable bodies, stress and strain, multiaxial deformations, stress analysis, and viscoelasticity. Biomechanics of soft and hard tissues.

0101	Kimberly Stroka TuTh 9:30am - 10:45am M 9:00am - 9:50am	Seats (Total: 30) KEB 1200 AJC 2121	Discussion
0103	Kimberly Stroka TuTh 9:30am - 10:45am W 4:00pm - 4:50pm	Seats (Total: 30) KEB 1200 AJC 2132	Discussion

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BIOE437 **Computer-Aided Design in Bioengineering**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: BIOE120, BIOE121, BIOE241, and MATH246; or permission of ENGR-Fischell Department of Bioengineering department. Restriction: Permission of ENGR-Fischell Department of Bioengineering department. Credit only granted for: BIOE437, BIOE689V, ENME414, ENME272, or ENAE488D. Formerly: BIOE689V.

Introduction to Computer-Aided Design (CAD). Basic CAD operations will be demonstrated in class with Creo Parametric (formerly Pro/E). Lecture topics will summarize design methodology, review best-practices in hardware development, and discuss engineering applications. The course will culminate in a student-selected project leveraging CAD.

0101	Milton Davis Tu 5:00pm - 7:45pm	Seats (Total: 40) KEB 2111	

BIOE453 **Biomaterials**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHEM231, MATH246, CHEM232, BIOE120, BIOE121, and BIOE241. Restriction: Permission of ENGR-Fischell Department of Bioengineering department. Credit only granted for: BIOE453, CHBE457, or ENMA425.

Examination of the structure and function of natural biomaterials, and cell-extracellular matrix interactions. Study physical properties of synthetic biomaterials for biomedical applications. Understanding molecular level interactions between biomolecules and biomaterials to design novel biomaterials with desirable characteristics. Application of biomaterials as implants, drug delivery systems, biosensors, engineered materials such as artificial skin and bone growth scaffolds will be covered.

0101	Christopher Jewell MWF 1:00pm - 1:50pm F 12:00pm - 12:50pm	Seats (Total: 30) EGR 0108 AJC 2132	 Discussion
0102	Christopher Jewell MWF 1:00pm - 1:50pm F 10:00am - 10:50am	Seats (Total: 30) EGR 0108 AJC 2132	 Discussion

BIOE457 **Biomedical Electronics & Instrumentation**

(Perm req)

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BIOE120, BIOE121, BIOE241, PHYS261, MATH246, and PHYS260. Restriction: Permission of ENGR-Fischell Department of Bioengineering department.

Students learn fundamental concepts of electronics, assembly of electronic components into functional circuits, and integration of functional electronic devices and circuits into a system. In the lab component, students will learn to assemble and evaluate circuits and systems.

0101	Yang Tao MWF 10:00am - 10:50am Tu 11:00am - 12:50pm	Seats (Total: 30) CCC 1205 AJC 1121	 Lab
0102	Yang Tao MWF 10:00am - 10:50am F 8:00am - 9:50am	Seats (Total: 30) CCC 1205 AJC 1121	 Lab

BIOE485 **Capstone Design I: Entrepreneurship, Regulatory Issues, and Ethics**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 21 credits in BIOE courses. Restriction: Permission of ENGR-Fischell Department of Bioengineering department; and senior standing; and must be in Engineering: Bioengineering program. Credit only granted for: BIOE485 or ENBE485. Formerly: ENBE485.

This is the first part of a two-semester senior capstone design course which covers principles involved in engineering design, design approaches, economics of design, ethics in engineering, and patent regulations. It also helps students learn team work and write design project proposals under the mentorship of a faculty advisor.

Please be aware that BIOE485 students will have reserved access to the Clark Hall Innovation Lab on Mondays 5:30-7:30pm during the Fall 2018 semester. While students are not required to use this space or this time , you are encouraged to build it into your schedule where possible and take advantage of the resource.

A Fearless Ideas Course from the Academy for Innovation & Entrepreneurship (AIE): http://ter.ps/iamFEARLESS Click here for more information on the Fearless Ideas Courses.

0101	Yang Tao MW 2:00pm - 3:15pm	Seats (Total: 117) EGR 1202

BIOE489A **Special Topics in Bioengineering; Python: Introduction to Programming and Data Analysis**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Exploring a variety of topics with Bioengineering.

Prerequisite: BIOE120, BIOE121, MATH241, and BIOE241.

0101	Eric Hoppmann M 5:00pm - 7:45pm	Seats (Total: 30) KEB 2107

BIOE489B **Special Topics in Bioengineering; Numerical Methods in Bioengineering**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Exploring a variety of topics with Bioengineering.

Prerequisite: BIOE120, BIOE121, BIOE241, and MATH246. Restrictions: Permission of Department.

0101	Benjamin Shapiro M 4:30pm - 7:00pm	Seats (Total: 20) ATL 1410

BIOE489C **Special Topics in Bioengineering; Mechanical Design of Medical Devices**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Exploring a variety of topics with Bioengineering.

Prerequisite: BIOE120, BIOE121, BIOE241, BIOE437. Restriction: Permission of department.

0101	Frank Modica	Seats (Total: 20)
	W 6:00pm - 9:00pm	KEB 2107

BIOE489D **Special Topics in Bioengineering; Bioinformatics and Biological Datamining**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Exploring a variety of topics with Bioengineering.

Prerequisite: BIOE120, BIOE121, and BIOE241. Restrictions: Permission of Department.

0101	Keith Herold	Seats (Total: 20)
	MWF 12:00pm - 12:50pm	AJC 2121

BIOE489H **Special Topics in Bioengineering; Bioengineering Honors Seminar**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Exploring a variety of topics with Bioengineering.

Restricted to students in the BIOE Honors Proram.

0101	Kimberly Stroka	Seats (Total: 40)
	M 3:15pm - 4:15pm	EGR 3106

BIOE489K **Special Topics in Bioengineering; Image Signal Processing**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Exploring a variety of topics with Bioengineering.

Prerequisite: BIOE241, BIOE371, and BIOE372. Restriction: Permission of department.

0101	Yu Chen	Seats (Total: 30)
	TuTh 12:30pm - 1:45pm	AJC 2132

BIOE489N **Special Topics in Bioengineering; Introduction to Computational Molecular Bioengineering**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Exploring a variety of topics with Bioengineering.

Prerequisite: BIOE120, BIOE241, BIOE232, and MATH246. Restrictions: Permission of Department.

0101	Silvina Matysiak	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	ATL 1410

BIOE489R **Special Topics in Bioengineering; Protein Engineering**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Exploring a variety of topics with Bioengineering.

Prerequisite: BIOE120 and BIOE232. Credit only granted for: CHBE497, BIOE489R, or ENCH648P.

0101	Amy Karlsson	Seats (Total: 6)
	TuTh 12:30pm - 1:45pm	EGR 1104

BIOE601 **Biomolecular and Cellular Rate Processes**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of ENGR-Fischell Department of Bioengineering department. Credit only granted for: BIOE601 or ENCH859B.

Presentation of techniques for characterizing and manipulating non-linear biochemical reaction networks. Advanced topics to include mathematical modeling of the dynamics of biological systems; separation techniques for heat sensitive biologically active materials; and rate processes in cellular and biomolecular systems. Methods are applied to current biotechnological systems, some include: recombinant bacteria; plant insect and mammalian cells; and transformed cell lines.

0101	William Bentley	Seats (Total: 30)
	TuTh 2:00pm - 3:15pm	AJC 2121

BIOE604 **Cellular and Physiological Transport Phenomena**

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Permission of ENGR-Fischell Department of Bioengineering department.

A study of transport processes, including momentum, energy and mass transport, relevant to biosystems at various scales from physiological to cellular systems. Transport leads to sets of partial differential equations and the course revolves around approaches to solving these equations to arrive at fundamental understanding of the physics of transport in biosystems.

0101	Keith Herold TuTh 8:00am - 9:15am	Seats (Total: 30) AJC 2132	
BI01	Keith Herold Class time/details on ELMs *This section is restricted to ENPM students only.*	Seats (Total: 30) ONLINE	

BIOE605 **BIOE Graduate Studies I**

(Perm req)

Credits: 1 Grading Method: Regular

Restriction: Must be in ENGR: PhD Only-Bioengineering (Doctoral) program.

Introduction to the bioengineering graduate program. Students gain exposure to departmental research through lab rotation and to current research in the field through seminar. Students will also gain preparation and guidance on other first-year academic requirements.

0101	Jose Aranda-Espinoza F 10:00am - 10:50am F 9:00am - 9:50am	Seats (Total: 30) AJC 2121 AJC 2121	 Discussion

BIOE608 **Bioengineering Seminar Series**

(Perm req)

Credits: 1 Grading Method: Regular, Audit

A variety of topics related to Bioengineering will be presented in weekly seminars.

For BIOE majors only.

0101	Giuliano Scarcelli F 9:00am - 9:50am	Seats (Total: 40) AJC 2132

BIOE612 **Physiological Evaluation of Bioengineering Designs**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of ENGR-Fischell Department of Bioengineering department.

Bioengineering designs of biomaterials, biomedical devices, imaging and drug delivery agents, tissue engineering, prosthesis (among others), offer the opportunity to improve health care. This course is aimed at providing knowledge to lead bioengineering designs on the basis of biocompatibility and to provide tools to assess their patho-physiological impact in biological systems.

0101	Steven Jay	Seats (Total: 42)
	TuTh 11:00am - 12:15pm	ESJ 2212

BIOE689 **Special Topics in Bioengineering**

Credits: 1-3 Grading Method: Regular

Research Oriented Individual Instruction course.

Contact department for information to register for this course.

BIOE689F **Special Topics in Bioengineering; Applications of Bioinformatics**

(Perm req)

Credits: 3 Grading Method: Regular

Research Oriented Individual Instruction course.

For Master of Engineering students only or with permission of department

0101	Keith Herold	Seats (Total: 10)
	MWF 12:00pm - 12:50pm	AJC 2121
BI01	Keith Herold	Seats (Total: 20)
	Class time/details on ELMs	ONLINE

BIOE689T **Special Topics in Bioengineering; Advanced Biomaterials**

(Perm req)

Credits: 3 Grading Method: Regular

Research Oriented Individual Instruction course.

Restriction: Permission of the Fischell Department of Bioengineering. Instruction on advanced applications of various biomaterials and on mathematical/numerical modeling of biomaterials properties and processes (e.g., cellular uptake of nanoparticles, cell migration on biomaterials surface, and protein adsorption) using ordinary and partial differential equations.

0101	Xiaoming He	Seats (Total: 20)
	TuTh 3:30pm - 4:45pm	CHE 2145

BIOE689U **Special Topics in Bioengineering; Computational Molecular Bioengineering**

(Perm req)

Credits: 3 Grading Method: Regular

Research Oriented Individual Instruction course.

0101	Silvina Matysiak TuTh 11:00am - 12:15pm	Seats (Total: 10) ATL 1410

BIOE689W **Special Topics in Bioengineering; Biomedical Device Development**

(Perm req)

Credits: 3 Grading Method: Regular

Research Oriented Individual Instruction course.

For Master of Engineering students only or with permission of department

0101	Martha Wang TuTh 12:30pm - 1:45pm	Seats (Total: 20) PLS 1115
BI01	Martha Wang Class time/details on ELMs	Seats (Total: 20) ONLINE

BIOE689Z **Special Topics in Bioengineering; Image Signal Processing**

(Perm req)

Credits: 3 Grading Method: Regular

Research Oriented Individual Instruction course.

0101	Yu Chen TuTh 12:30pm - 1:45pm	Seats (Total: 10) AJC 2132

BIOE799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

BIOE898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

BIOE899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6

Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

BIOL Biology Fall 2018

BIOL608J **Biology Seminar; Statistical Learning in Ecology and Evolution**

(Perm req)

Credits: 1

Grading Method: Regular

0101	Philip Johnson	Seats (Total: 10)
	Contact instructor or department for details.	

BIOL608K **Biology Seminar; Biological Sciences Teaching and Learning in Higher Education**

(Perm req)

Credits: 2

Grading Method: Regular

Also offered as CBMG699K, CHEM608K, and ENTM699K. Credit will be granted for only one of the following: BIOL608K, CBMG699K, CHEM608K, or ENTM699K.

0101	Gili Ad-Marbach	Seats (Total: 12)
	W 12:00pm - 1:40pm	BPS 1208

BIOL609 **Special Problems in Biology**

Credits: 1-6

Grading Method: Regular

One seminar per week for each subject selected: A-Cell Biology; B-Developmental Biology; C-Estuarine and Marine Biology; D-Genetics; E-Parasitology; F-Physiology; G-Systematics and Evolutionary Biology; I-Behavior; J-General; K-Endocrinology; L-Ecology.

Contact department for information to register for this course.

BIOL620 **Cell Biology**

Credits: 3

Grading Method: Regular, Audit

Offered with laboratory as BSCI 421. Molecular basis of cell structure and function in eukaryotes.

0101	Norma Andrews	Seats (Total: 4)
	TuTh 12:30pm - 1:45pm	PLS 1130

BIOL646 **Hearing**

Credits: 3

Grading Method: Regular

Prerequisite: BSCI330 or BSCI230; or permission of instructor.

Principles of hearing, covering the auditory periphery, the physiology and anatomy of the central auditory system and psychoacoustics.

Also offered as NACS728A. Credit only granted for BIOL646 or NACS728A.

0101	Catherine Carr	Seats (Total: 20)	
	Th 4:00pm - 6:30pm	BPS 1208	

BIOL667 **Mathematical Biology**

Credits: 4 Grading Method: Regular

Credit only granted for: BIOL667 or ZOOL625. Formerly: ZOOL625.

Mathematical methods of analyzing deterministic and stochastic biological processes from a variety of areas (including population and evolutionary biology, neurobiology, physiology, and morphogenesis). Qualitative aspects of dynamical systems which are usually given as difference or differential equations. The computer program Mathematica will be used to obtain the numerical solutions of these equations.

0101	Jonathan Simon	Seats (Total: 5)	
	TuTh 9:30am - 10:45am	CCC 1111	
	M 1:00pm - 3:50pm	CCC 1111	Lab

BIOL671 **Molecular Evolution**

Credits: 3 Grading Method: Regular

Credit only granted for: BIOL671 or ZOOL645. Formerly: ZOOL645.

Basic foundations through advanced concepts in molecular evolution, including patterns and processes of DNA sequence variation, transposable element dynamics, gene duplication and loss, and genome organization. Relevant concepts from genetics, biochemistry, and phylogenetics also will be covered.

0101	Michael Cummings	Seats (Total: 15)	
	Class time/details on ELMs	ONLINE	

BIOL704 **Cell Biology from a Biophysical Perspective**

Credits: 3 Grading Method: Regular

Recommended: BSCI330, PHYS121, and PHYS122. Also offered as: BSCI404. Credit only granted for: BSCI404, BIOL704, BIOL708O, or BIPH704. Formerly: BIOL708O.

An approach to cell biology by focusing on mechanisms and unifying paradigms. It will not assume a great deal of factual biological knowledge, but will expect a background that prepares students to think quantitatively and mechanistically.

0101	Sergei Sukharev TuTh 3:30pm - 4:45pm	Seats (Total: 9) PLS 1113	

BIOL708B **Advanced Topics in Biology; Animal Behavior**

Credits: 3 Grading Method: Regular

Lectures, experimental courses and other special instructions in variou zoological subjects.

0101	Gerald Borgia MW 11:00am - 11:50am F 9:00am - 9:50am	Seats (Total: 1) PLS 1130 PLS 1162	 Discussion
0102	Gerald Borgia MW 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 1) PLS 1130 PLS 1162	 Discussion
0103	Gerald Borgia MW 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 1) PLS 1130 PLS 1162	 Discussion

BIOL708E **Advanced Topics in Biology; Diseases of the Nervous System**

Credits: 3 Grading Method: Regular

Lectures, experimental courses and other special instructions in variou zoological subjects.

0101	Quentin Gaudry TuTh 12:30pm - 1:45pm	Seats (Total: 8) BPS 0283	

BIOL708Q **Advanced Topics in Biology; Biology of Chemosensory Systems**

Credits: 3 Grading Method: Regular

Lectures, experimental courses and other special instructions in variou zoological subjects.

0101	Ricardo Araneda MW 2:00pm - 3:15pm	Seats (Total: 10) BPS 2249	

BIOL708X **Advanced Topics in Biology; Sexual Selection in Nature**

Credits: 3 Grading Method: Regular

Lectures, experimental courses and other special instructions in variou zoological subjects.

0101	Heidi Fisher	Seats (Total: 7)	
	TuTh 3:30pm - 4:45pm	BPS 1228	

BIOL709C **Selected Advanced Topics in Biology; Population and Evolutionary Genetics**

Credits: 3 Grading Method: Regular, Audit

Lectures, experimental courses and other special instructions in various biological subjects.

0101	Philip Johnson	Seats (Total: 4)	
	MW 11:00am - 11:50am	HBK 0123	
	F 10:00am - 11:50am	PLS 1121	Lab

BIOL709W **Selected Advanced Topics in Biology; Molecular Neuroethology**

Credits: 3 Grading Method: Regular, Audit

Lectures, experimental courses and other special instructions in various biological subjects.

0101	Scott Juntti	Seats (Total: 10)
	TuTh 3:30pm - 4:45pm	BPS 0283

BIOL799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

BIOL898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

BIOL899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

BIOM Biometrics Fall 2018

BIOM301 **Introduction to Biometrics**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: FSAR

Prerequisite: MATH113 or MATH115. Credit only granted for: BIOM301, BMGT230, CCJS200, ECON230, ECON321, EDMS451, GEOG306, GEOL351, GVPT422, INST314, JOUR405, PSYC200 or SOCY201.

Descriptive statistics, introduction to probability, sampling, confidence interval estimation, hypothesis testing, simple regression and correlation. Emphasis on simple applications of statistical techniques and interpretation of statistical results.

0101	Christine Hakenkamp TuTh 2:00pm - 2:50pm M 1:00pm - 1:50pm	Seats (Total: 26) EGR 1202 ANS 0473	Discussion
0102	Christine Hakenkamp TuTh 2:00pm - 2:50pm M 2:00pm - 2:50pm	Seats (Total: 26) EGR 1202 ANS 0473	Discussion
0103	Christine Hakenkamp TuTh 2:00pm - 2:50pm M 3:00pm - 3:50pm	Seats (Total: 26) EGR 1202 ANS 0473	Discussion
0104	Christine Hakenkamp TuTh 2:00pm - 2:50pm Tu 9:30am - 10:20am	Seats (Total: 26) EGR 1202 ANS 0473	Discussion
0105	Christine Hakenkamp TuTh 2:00pm - 2:50pm Tu 11:00am - 11:50am	Seats (Total: 26) EGR 1202 ANS 0473	Discussion
0106	Christine Hakenkamp TuTh 2:00pm - 2:50pm Tu 12:30pm - 1:20pm	Seats (Total: 25) EGR 1202 ANS 0473	Discussion
0107	Christine Hakenkamp TuTh 2:00pm - 2:50pm M 10:00am - 10:50am	Seats (Total: 25) EGR 1202 ANS 0473	Discussion

BIOM405 **Computer Applications in Biometrics**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

An introduction to computer applications for data analysis. This is equivalent to the computer lab of 601 and is required for students that have taken BIOM 301 and BIOM402 and wish to go directly into BIOM602.

0101	Li Ma Contact instructor or department for details.	Seats (Total: 5)	

BIOM601 **Biostatistics I**

Credits: 4 Grading Method: Regular, Audit

Prerequisite: BIOM301 or STAT464; or students who have taken courses with comparable content may contact the department. Credit only granted for: BIOM401 or BIOM601.

Estimation and hypothesis testing, t tests, one and two way analysis of variance, regression, analysis of frequency data. Lecture will emphasize uses and limitations of these methods in biology, while the laboratory will emphasize the use of statistical analysis software for the analysis of biological data.

0101	Li Ma TuTh 12:30pm - 1:45pm Tu 2:00pm - 4:00pm	Seats (Total: 27) ANS 0408 ANS 0473	 Lab
0102	Li Ma TuTh 12:30pm - 1:45pm W 9:00am - 11:00am	Seats (Total: 27) ANS 0408 ANS 0473	 Lab
0104	Li Ma TuTh 12:30pm - 1:45pm Th 2:00pm - 4:00pm	Seats (Total: 27) ANS 0408 ANS 0473	 Lab

BIOM688A **Topics in Biometrics; Consulting Experience in Biometrics**

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics of current interest in various areas of biometrics. Credit assigned will depend on lecture and/or laboratory time scheduled and organization of the course.

Contact department for information to register for this course.

BIOM698 **Special Problems in Biometrics**

Credits: 1-3 Grading Method: Regular, Audit

Individual study of a particular topic in biostatistics or biomathematics.

Contact department for information to register for this course.

BIPH Biophysics Fall 2018

BIPH698L **Biophysics Seminar; Biophysics**

Credits: 1 Grading Method: Regular, Audit

0101	Arpita Upadhyaya	Seats (Total: 10)
	M 4:00pm - 5:30pm	IPT 1116

BIPH699 **Research in Biophysics**

Credits: 2 Grading Method: Regular

Supervised research in biophysics laboratories. Rotations through several laboratories prior to a choice of laboratory for a research assistantship.

Contact department for information to register for this course.

BIPH704 **Cell Biology from a Biophysical Perspective**

Credits: 3 Grading Method: Regular

Recommended: BSCI330, PHYS121, and PHYS122. Also offered as: BSCI404, BIOL704. Credit only granted for: BSCI404, BIOL704, BIOL708O, or BIPH704.

An approach to cell biology by focusing on mechanisms and unifying paradigms. It will not assume a great deal of factual biological knowledge, but will expect a background that prepares students to think quantitatively and mechanistically.

0101	Sergei Sukharev	Seats (Total: 9)
	TuTh 3:30pm - 4:45pm	PLS 1113

BIPH898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

BIPH899 **Doctoral Dissertation Research**

(Perm req) Credits: 6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

BISI Biological Sciences Fall 2018

BISI701 **Teaching & Professional Development in Biology**

Credits: 1 Grading Method: Sat-Fail

Also offered as: ENTM701. Credit only granted for: ENTM701, BISI688Z, CBMG688Z, or BIOL701. Formerly: BISI688Z, CBMG688Z, BIOL701. Additional information: Priority in enrollment will be given to students in the BISI Graduate Program.

Provides graduate students in the biological sciences with the foundational knowledge to become better teaching assistants and gives them an introduction into the skills and tools that they need to develop as professional scientists and educators.

0101	Zakiya Whatley Tu 6:00pm - 8:00pm	Seats (Total: 25) BPS 1208

BISI712 **Responsible Conduct of Research for Biologists**

Credits: 1 Grading Method: Regular

Credit only granted for: BISI712, BISI688B, or CBMG688B. Formerly: BISI688B and CBMG688B.

An exploration of the ethical dimensions associated with the responsible conduct of scientific research focusing on providing students with practical insights into the existing norms and expectations of working scientists.

0101	Lisa Taneyhill **Meets August 27, 2018 - October 12, 2018** Th 2:00pm - 4:00pm	Seats (Total: 20) ANS 0467

BISI799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

0201	Caren Chang Contact instructor or department for details.	Seats (Total: 5)
0245	Hector Corrada Bravo Contact instructor or department for details.	Seats (Total: 5)

2080	Todd Cooke Contact instructor or department for details.	Seats (Total: 1)
2440	Sougata Roy Contact instructor or department for details.	Seats (Total: 5)
3100	William Lamp Contact instructor or department for details.	Seats (Total: 10)
7801	Jonathan Dinman Contact instructor or department for details.	Seats (Total: 5)

BISI898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

BISI899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

BMGT Business and Management Fall 2018

BMGT099 **Internship Seminar**

(Perm req)

Credits: 0 Grading Method: Sat-Fail

Complements students' supervised work experiences. Involves exploring career options, developing professional work skills, examining the relationship between internship and academic coursework. Course may be repeated.

Contact department for information to register for this course.

BMGT110 **Introduction to the Business Value Chain**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: IE

Students are provided with an introduction to the business value chain with an emphasis on inter-organizational and intra-organizational coordination of core business processes. Emphasis is on cross-functional integration and the efficient and effective management of core processes with an emphasis on marketing, operations and supply chain management.

0101	Jeff Miller TuTh 12:30pm - 1:45pm	Seats (Total: 250) VMH 1524
FC01	Jeff Miller TuTh 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 80) TYD 0117

BMGT110F **Introduction to the Business Value Chain**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: IE

Restricted to Smith School's Smith Start (FPFF) students.

FP01	Ryan Cooper MW 9:30am - 10:45am	Seats (Total: 38) VMH 1311
FP02	Ryan Cooper MW 11:00am - 12:15pm	Seats (Total: 38) VMH 1311
FP03	Leland Gardner MW 2:00pm - 3:15pm	Seats (Total: 38) VMH 1415
FP04	Hugh Turner M 8:00am - 9:15am Class time/details on ELMs	Seats (Total: 38) VMH 1335 ONLINE
FP05	Hugh Turner Tu 8:00am - 9:15am Class time/details on ELMs	Seats (Total: 38) VMH 1336 ONLINE
FP06	Richard Hutchins TuTh 9:30am - 10:45am	Seats (Total: 38) VMH 1311
FP07	Richard Hutchins TuTh 11:00am - 12:15pm	Seats (Total: 38) VMH 1311
FP08	Kenneth Grimm MW 12:30pm - 1:45pm	Seats (Total: 38) ESJ 1309

FP09	Hugh Turner W 8:00am - 9:15am Class time/details on ELMs	Seats (Total: 38) VMH 1335 ONLINE
FP10	Hugh Turner Th 8:00am - 9:15am Class time/details on ELMs	Seats (Total: 38) VMH 1336 ONLINE
FP11	Hugh Turner F 9:30am - 10:45am Class time/details on ELMs	Seats (Total: 38) VMH 1415 ONLINE
FP12	Hugh Turner F 11:00am - 12:15pm Class time/details on ELMs	Seats (Total: 38) VMH 1415 ONLINE

BMGT190H **Introduction to Design and Quality**

Credits: 4 Grading Method: Regular General Education: DSSP

Restriction: Must be in the Quest program. Also offered as: ENES190. Credit only granted for: BMGT190 or ENES190.

Exposes engineering and business students to the principles of total quality, using experiential team-learning and technology-aided approaches. The first of four courses in total quality.

Restricted to Quest Program students.

A Fearless Ideas Course from the Academy for Innovation & Entrepreneurship (AIE): http://ter.ps/iamFEARLESS Click here for more information on the Fearless Ideas Courses.

0101	Pamela Armstrong TuTh 12:30pm - 1:45pm Tu 6:00pm - 7:50pm	Seats (Total: 45) ESJ 2212 VMH 1412	 Discussion

BMGT210 **Foundations of Accounting for Non Business Majors**

Credits: 3 Grading Method: Regular

Restriction: Must not have completed BMGT221; and must not be in a major in the R.H. Smith School of Business. Credit only granted for: (BMGT220 and BMGT221) or BMGT210. Additional information: Does not apply to a Smith School degree. Students pursuing a Smith School minor who have completed both BMGT220 and BMGT221 may substitute these courses for BMGT210. Credit will not be given for both BMGT210 and the combination of BMGT220 and BMGT221.

Provides an understanding of the common statements that report a company's profitability and financial health, and are useful to all economic agents who are engaged with the firm. Students will also recognize and understand managerial accounting as a system for accumulating and modeling information to support decision-making.

Restricted to General Business Minors

0101	Eugene Cantor MW 2:00pm - 3:15pm	Seats (Total: 60) TWS 1310	
0201	Eugene Cantor MW 3:30pm - 4:45pm	Seats (Total: 60) TWS 1310	

BMGT220 **Principles of Accounting I**

Credits: 3 Grading Method: Regular

Basic theory and techniques of contemporary financial accounting. Includes the accounting cycle and the preparation of financial statements for single owner and partnership forms of business organizations operating as service companies or merchandisers.

Open to all students with 24 credit hours completed.

0101	Progyan Basu MW 9:30am - 10:45am F 9:00am - 9:50am	Seats (Total: 38) VMH 1212 VMH 1206	 Discussion
0102	Progyan Basu MW 9:30am - 10:45am F 10:00am - 10:50am	Seats (Total: 38) VMH 1212 VMH 1206	 Discussion
0103	Progyan Basu MW 9:30am - 10:45am F 11:00am - 11:50am	Seats (Total: 38) VMH 1212 VMH 1206	 Discussion
0104	Progyan Basu MW 9:30am - 10:45am F 12:00pm - 12:50pm	Seats (Total: 38) VMH 1212 VMH 1206	 Discussion
0201	Progyan Basu MW 11:00am - 12:15pm F 9:00am - 9:50am	Seats (Total: 38) VMH 1212 VMH 1303	 Discussion

0202	Progyan Basu MW 11:00am - 12:15pm F 10:00am - 10:50am	Seats (Total: 38) VMH 1212 VMH 1303	Discussion
0203	Progyan Basu MW 11:00am - 12:15pm F 11:00am - 11:50am	Seats (Total: 38) VMH 1212 VMH 1303	Discussion
0204	Progyan Basu MW 11:00am - 12:15pm F 12:00pm - 12:50pm	Seats (Total: 38) VMH 1212 VMH 1303	Discussion
0205	Progyan Basu MW 11:00am - 12:15pm F 11:00am - 11:50am	Seats (Total: 38) VMH 1212 VMH 1202	Discussion
0301	Progyan Basu MW 12:30pm - 1:45pm F 9:00am - 9:50am	Seats (Total: 38) VMH 1212 VMH 1307	Discussion
0302	Progyan Basu MW 12:30pm - 1:45pm F 10:00am - 10:50am	Seats (Total: 38) VMH 1212 VMH 1307	Discussion
0303	Progyan Basu MW 12:30pm - 1:45pm F 11:00am - 11:50am	Seats (Total: 38) VMH 1212 VMH 1307	Discussion
0304	Progyan Basu MW 12:30pm - 1:45pm F 12:00pm - 12:50pm	Seats (Total: 38) VMH 1212 VMH 1307	Discussion
0305	Progyan Basu MW 12:30pm - 1:45pm F 12:00pm - 12:50pm	Seats (Total: 38) VMH 1212 VMH 1202	Discussion

BMGT220H **Principles of Accounting I**

Credits: 3 Grading Method: Regular

Basic theory and techniques of contemporary financial accounting. Includes the accounting cycle and the preparation of financial statements for single owner and partnership forms of business organizations operating as service companies or merchandisers.

Restricted to Honors students with 24 credit hours completed.

0101	Stephen Brown MW 3:30pm - 4:45pm	Seats (Total: 35) VMH 1415	

BMGT221 **Principles of Accounting II**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT220.

Basic theory and techniques of accounting for managerial decision making. Involves the introduction of the corporation and manufacturing operations. Includes cost-volume-profit analysis and capital budgeting. Introduces the topics of income taxation and international accounting.

Restricted to students with 24 credit hours completed.

0101	Gary Bulmash TuTh 12:30pm - 1:45pm F 9:00am - 9:50am	Seats (Total: 32) VMH 1212 VMH 1335	 Discussion
0102	Gary Bulmash TuTh 12:30pm - 1:45pm F 10:00am - 10:50am	Seats (Total: 32) VMH 1212 VMH 1335	 Discussion
0103	Gary Bulmash TuTh 12:30pm - 1:45pm F 11:00am - 11:50am	Seats (Total: 32) VMH 1212 VMH 1335	 Discussion
0104	Gary Bulmash TuTh 12:30pm - 1:45pm F 12:00pm - 12:50pm	Seats (Total: 32) VMH 1212 VMH 1335	 Discussion
0105	Gary Bulmash TuTh 12:30pm - 1:45pm F 1:00pm - 1:50pm	Seats (Total: 32) VMH 1212 VMH 1335	 Discussion
0201	Gary Bulmash TuTh 2:00pm - 3:15pm F 9:00am - 9:50am	Seats (Total: 32) VMH 1212 VMH 1336	 Discussion

0202	Gary Bulmash TuTh 2:00pm - 3:15pm F 10:00am - 10:50am	Seats (Total: 32) VMH 1212 VMH 1336	Discussion
0203	Gary Bulmash TuTh 2:00pm - 3:15pm F 11:00am - 11:50am	Seats (Total: 32) VMH 1212 VMH 1336	Discussion
0204	Gary Bulmash TuTh 2:00pm - 3:15pm F 12:00pm - 12:50pm	Seats (Total: 32) VMH 1212 VMH 1336	Discussion
0205	Gary Bulmash TuTh 2:00pm - 3:15pm F 1:00pm - 1:50pm	Seats (Total: 32) VMH 1212 VMH 1336	Discussion

BMGT221H **Principles of Accounting II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BMGT220.

Basic theory and techniques of accounting for managerial decision making. Involves the introduction of the corporation and manufacturing operations. Includes cost-volume-profit analysis and capital budgeting. Introduces the topics of income taxation and international accounting.

Course restricted to University Honors Studetns with 24 credit hours completed.

0101	Gary Bulmash TuTh 3:30pm - 4:45pm	Seats (Total: 35) VMH 1311	

BMGT230 **Business Statistics**

Credits: 3 Grading Method: Regular General Education: FSAR

Prerequisite: MATH113 or MATH115; or must have math eligibility of MATH120 or higher. Restriction: Must not have completed ENCE302, ENME392, STAT400, BMGT231, or ENEE324. Credit only granted for: BIOM301, BMGT230, CCJS200, ECON230, ECON321, EDMS451, GEOG306, GEOL351, GVPT422, INST314, JOUR405, PSYC200 or SOCY201. (These courses do not necessarily meet the same major requirements-check with your advisor to see which of these courses will count for your major).

Introductory course in probabilistic and statistical concepts including descriptive statistics, set-theoretic development of probability, the properties of discrete and continuous random variables, sampling theory, estimation, hypothesis testing, regression and decision theory and the application of these concepts to problem solving in business and management.

0101	Erich Studer-Ellis MW 11:00am - 12:15pm F 8:00am - 8:50am	Seats (Total: 30) VMH 1524 VMH 1314	 Discussion
0102	Erich Studer-Ellis MW 11:00am - 12:15pm F 9:00am - 9:50am	Seats (Total: 15) VMH 1524 VMH 1314	 Discussion
0103	Erich Studer-Ellis MW 11:00am - 12:15pm F 10:00am - 10:50am	Seats (Total: 30) VMH 1524 VMH 1314	 Discussion
0104	Erich Studer-Ellis MW 11:00am - 12:15pm F 11:00am - 11:50am	Seats (Total: 15) VMH 1524 VMH 1314	 Discussion
0105	Erich Studer-Ellis MW 11:00am - 12:15pm F 12:00pm - 12:50pm	Seats (Total: 15) VMH 1524 VMH 1314	 Discussion
0106	Erich Studer-Ellis MW 11:00am - 12:15pm F 1:00pm - 1:50pm	Seats (Total: 30) VMH 1524 VMH 1314	 Discussion
0107	Erich Studer-Ellis MW 11:00am - 12:15pm F 2:00pm - 2:50pm	Seats (Total: 30) VMH 1524 VMH 1314	 Discussion
0201	Erich Studer-Ellis MW 12:30pm - 1:45pm F 8:00am - 8:50am	Seats (Total: 30) VMH 1524 VMH 1411	 Discussion
0202	Erich Studer-Ellis MW 12:30pm - 1:45pm F 9:00am - 9:50am	Seats (Total: 30) VMH 1524 VMH 1411	 Discussion

0203	Erich Studer-Ellis MW 12:30pm - 1:45pm F 10:00am - 10:50am	Seats (Total: 30) VMH 1524 VMH 1411	Discussion
0204	Erich Studer-Ellis MW 12:30pm - 1:45pm F 11:00am - 11:50am	Seats (Total: 30) VMH 1524 VMH 1411	Discussion
0205	Erich Studer-Ellis MW 12:30pm - 1:45pm F 12:00pm - 12:50pm	Seats (Total: 15) VMH 1524 VMH 1411	Discussion
0206	Erich Studer-Ellis MW 12:30pm - 1:45pm F 1:00pm - 1:50pm	Seats (Total: 15) VMH 1524 VMH 1411	Discussion
0207	Erich Studer-Ellis MW 12:30pm - 1:45pm F 2:00pm - 2:50pm	Seats (Total: 15) VMH 1524 VMH 1411	Discussion
0301	Erich Studer-Ellis MW 2:00pm - 3:15pm F 8:00am - 8:50am	Seats (Total: 30) VMH 1524 VMH 1418	Discussion
0302	Erich Studer-Ellis MW 2:00pm - 3:15pm F 9:00am - 9:50am	Seats (Total: 21) VMH 1524 VMH 1418	Discussion
0303	Erich Studer-Ellis MW 2:00pm - 3:15pm F 10:00am - 10:50am	Seats (Total: 25) VMH 1524 VMH 1418	Discussion
0304	Erich Studer-Ellis MW 2:00pm - 3:15pm F 11:00am - 11:50am	Seats (Total: 16) VMH 1524 VMH 1418	Discussion
0305	Erich Studer-Ellis MW 2:00pm - 3:15pm F 12:00pm - 12:50pm	Seats (Total: 26) VMH 1524 VMH 1418	Discussion

0306	Erich Studer-Ellis MW 2:00pm - 3:15pm F 1:00pm - 1:50pm	Seats (Total: 16) VMH 1524 VMH 1418	 Discussion
0307	Erich Studer-Ellis MW 2:00pm - 3:15pm F 2:00pm - 2:50pm	Seats (Total: 30) VMH 1524 VMH 1418	 Discussion
FC01	Radu Lazar MW 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 32) HBK 1112	

BMGT230B **Business Statistics**

Credits: 3 Grading Method: Regular General Education: FSAR

Prerequisite: MATH113 or MATH115; or must have math eligibility of MATH120 or higher. Restriction: Must not have completed ENCE302, ENME392, STAT400, BMGT231, or ENEE324. Credit only granted for: BIOM301, BMGT230, CCJS200, ECON230, ECON321, EDMS451, GEOG306, GEOL351, GVPT422, INST314, JOUR405, PSYC200 or SOCY201. (These courses do not necessarily meet the same major requirements-check with your advisor to see which of these courses will count for your major).

Introductory course in probabilistic and statistical concepts including descriptive statistics, set-theoretic development of probability, the properties of discrete and continuous random variables, sampling theory, estimation, hypothesis testing, regression and decision theory and the application of these concepts to problem solving in business and management.

Restricted to BMGT majors.

0102	Erich Studer-Ellis MW 11:00am - 12:15pm F 9:00am - 9:50am	Seats (Total: 15) VMH 1524 VMH 1314	 Discussion
0104	Erich Studer-Ellis MW 11:00am - 12:15pm F 11:00am - 11:50am	Seats (Total: 15) VMH 1524 VMH 1314	 Discussion
0105	Erich Studer-Ellis MW 11:00am - 12:15pm F 12:00pm - 12:50pm	Seats (Total: 15) VMH 1524 VMH 1314	 Discussion

0205	Erich Studer-Ellis MW 12:30pm - 1:45pm F 12:00pm - 12:50pm	Seats (Total: 15) VMH 1524 VMH 1411	 Discussion
0206	Erich Studer-Ellis MW 12:30pm - 1:45pm F 1:00pm - 1:50pm	Seats (Total: 15) VMH 1524 VMH 1411	 Discussion
0207	Erich Studer-Ellis MW 12:30pm - 1:45pm F 2:00pm - 2:50pm	Seats (Total: 15) VMH 1524 VMH 1411	 Discussion
0302	Erich Studer-Ellis MW 2:00pm - 3:15pm F 9:00am - 9:50am	Seats (Total: 9) VMH 1524 VMH 1418	 Discussion
0303	Erich Studer-Ellis MW 2:00pm - 3:15pm F 10:00am - 10:50am	Seats (Total: 5) VMH 1524 VMH 1418	 Discussion
0304	Erich Studer-Ellis MW 2:00pm - 3:15pm F 11:00am - 11:50am	Seats (Total: 14) VMH 1524 VMH 1418	 Discussion
0305	Erich Studer-Ellis MW 2:00pm - 3:15pm F 12:00pm - 12:50pm	Seats (Total: 4) VMH 1524 VMH 1418	 Discussion
0306	Erich Studer-Ellis MW 2:00pm - 3:15pm F 1:00pm - 1:50pm	Seats (Total: 14) VMH 1524 VMH 1418	 Discussion

BMGT230H **Business Statistics**

Credits: 3 Grading Method: Regular General Education: FSAR

Prerequisite: MATH113 or MATH115; or must have math eligibility of MATH120 or higher. Restriction: Must not have completed ENCE302, ENME392, STAT400, BMGT231, or ENEE324. Credit only granted for: BIOM301, BMGT230, CCJS200, ECON230, ECON321, EDMS451, GEOG306, GEOL351, GVPT422, INST314, JOUR405, PSYC200 or SOCY201. (These courses do not necessarily meet the same major requirements-check with your advisor to see which of these courses will count for your major).

Introductory course in probabilistic and statistical concepts including descriptive statistics, set-theoretic development of probability, the properties of discrete and continuous random variables, sampling theory, estimation, hypothesis testing, regression and decision theory and the application of these concepts to problem solving in business and management.

Restricted to Honors students.

0101	Radu Lazar TuTh 9:30am - 10:45am	Seats (Total: 35) VMH 1518

BMGT289A **Social Enterprise: Changing the World through Innovation and Transformative Action**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: SB	General Education: DSSP, SCIS

0101	Le-Marie Thompson W 5:00pm - 7:40pm	Seats (Total: 60) TYD 1101

BMGT289B **How Do Innovators Think?**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	General Education: DSSP, SCIS

Credit will be granted for only one of the following: BMBT289B or HONR289P. Course will meet on occasional Monday evenings from 6:30-9:15pm for assessments and guest speaker presentations. Specific dates will be available by the start of the semester.

0101	Mark Wellman W 5:00pm - 6:50pm M 6:30pm - 9:15pm	Seats (Total: 42) ESJ 2212 Location: TBA
0201	Mark Wellman W 3:00pm - 4:50pm M 6:30pm - 9:15pm *This section is restricted to College Park Scholars in Business, Society and the Economy students.*	Seats (Total: 78) TWS 0310 Location: TBA
FC01	Mark Wellman F 1:00pm - 4:15pm W 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 30) SQH 1101 ESJ 1309

BMGT289D **Frauds, Scams, and Thefts: What, How and Why?**

Credits: 3 | Grading Method: Regular | General Education: DSSP, SCIS

0101	David Weber MW 3:30pm - 4:45pm	Seats (Total: 60) ESJ 1202
0201	David Weber MW 5:00pm - 6:15pm	Seats (Total: 60) ESJ 1202

BMGT289E **Entrepreneurial Thinking for Non-Business Majors: How Not to Miss Great Opportunities Your Life Throws at You**

Credits: 3 | Grading Method: Regular | CORE: IE | General Education: DSSP, SCIS

0101	Jonathan Aberman MW 2:00pm - 3:15pm	Seats (Total: 60) ESJ 1215
0201	Oliver Schlake Tu 2:00pm - 4:40pm	Seats (Total: 60) ASY 2203

BMGT289I **Why Good Managers Make Bad Decisions**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: MS | General Education: DSSP, SCIS

Why do smart managers make flawed decisions? Why do managers keep believing they have made the right choice, even with disastrous results staring them in the face? Why Good Managers Make Bad Decisions will address how evidence-based management and other decisionmaking tools can be used to uncover hidden assumptions in the corner offices of great corporations.

0101	Jeff Miller MW 3:30pm - 4:45pm	Seats (Total: 240) VMH 1524
FC01	Jeff Miller TuTh 3:00pm - 4:15pm *Restricted to students in Freshman Connection.*	Seats (Total: 40) BPS 1238

BMGT289L **The Proper Role of Government in a Free Enterprise System**

Credits: 3 | Grading Method: Regular | CORE: SB | General Education: DSHS, SCIS

0101	Leland Gardner TuTh 12:30pm - 1:45pm	Seats (Total: 55) VMH 1335

BMGT299A **Student Initiated Special Topics; Designing for Business**

Credits: 1 Grading Method: Sat-Fail

Student initiated special topics in business and management.

0101	Mary Harms Tu 3:30pm - 4:45pm	Seats (Total: 20) VMH 1511

BMGT301 **Introduction to Information Systems**

Credits: 3 Grading Method: Regular

Restriction: Must be in a major in BMGT-Robert H. Smith School of Business. Additional information: CMSC majors will not receive credit for this course towards their upper level concentration in their CMSC major. All BMGT majors, including students who are a double major in CMCS, must complete BMGT301 for their BMGT degree.

Comprehensive overview of information systems (IS), which explores the strategic and tactical nature of IS. The basic concepts in analyzing and designing information systems for business applications will be presented. Aspects of data management such as databases, data warehousing, data analysis, and data mining will be analyzed, and the basics of web page and web site design will be outlined. Students will also be introduced to modern information systems infrastructure such as telecommunications, networks, and information systems security. Knowledge of Excel or a similar spreadsheet tool.

Restricted to BMGT majors with 53 credits completed.

0101	Zeinab Karake MW 9:30am - 10:45am	Seats (Total: 60) VMH 1505
0201	Zeinab Karake MW 3:30pm - 4:45pm	Seats (Total: 60) VMH 1303
0301	Zeinab Karake TuTh 11:00am - 12:15pm	Seats (Total: 60) VMH 1303
0401	Zeinab Karake TuTh 12:30pm - 1:45pm	Seats (Total: 60) VMH 1303
0501	Wei Chen MW 12:30pm - 1:45pm	Seats (Total: 55) VMH 1335

0601	Wei Chen MW 11:00am - 12:15pm	Seats (Total: 60) VMH 1303
0701	Wei Chen TuTh 2:00pm - 3:15pm	Seats (Total: 60) VMH 1412

BMGT301F **Introduction to Information Systems**

Credits: 3 Grading Method: Regular

Restriction: Must be in a major in BMGT-Robert H. Smith School of Business. Additional information: CMSC majors will not receive credit for this course towards their upper level concentration in their CMSC major. All BMGT majors, including students who are a double major in CMCS, must complete BMGT301 for their BMGT degree.

Comprehensive overview of information systems (IS), which explores the strategic and tactical nature of IS. The basic concepts in analyzing and designing information systems for business applications will be presented. Aspects of data management such as databases, data warehousing, data analysis, and data mining will be analyzed, and the basics of web page and web site design will be outlined. Students will also be introduced to modern information systems infrastructure such as telecommunications, networks, and information systems security. Knowledge of Excel or a similar spreadsheet tool.

Restricted to second year students in the Smith School's Smith Start program (FPFF).

FP01	Zeinab Karake MW 12:30pm - 1:45pm	Seats (Total: 65) VMH 1412
FP02	Zeinab Karake MW 8:00am - 9:15am	Seats (Total: 65) VMH 1505

BMGT302 **Designing Applications for Business Analytics**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT301; or permission of BMGT-Robert H. Smith School of Business. Restriction: Must be in a major in BMGT-Robert H. Smith School of Business; and must not be in Computer Science program.

Provides an introduction to structured programming with business applications. Programming logic and data structures are introduced. The course especially emphasizes hands-on exercises using Excel macros and Visual Basic for Applications (VBA), and covers business functions and analytics.

Restricted to BMGT majors with 53 credit hours completed. Not open to Computer Science Majors.

0101	Peng Huang TuTh 3:30pm - 4:45pm	Seats (Total: 32) VMH 2203	
0201	Wei Chen TuTh 9:30am - 10:45am	Seats (Total: 32) VMH 2203	
0301	Wei Chen MW 9:30am - 10:45am *Students learn to design and program Macro in Excel using Visual Basic for Applications (VBA) to support business analytics. Fundamental programming principles are also introduced using the Visual Basic programming language.*	Seats (Total: 32) VMH 2203	
0401	Wei Chen TuTh 12:30pm - 1:45pm	Seats (Total: 24) VMH 3522	

BMGT302F **Designing Applications for Business Analytics**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT301; or permission of BMGT-Robert H. Smith School of Business. Restriction: Must be in a major in BMGT-Robert H. Smith School of Business; and must not be in Computer Science program.

Provides an introduction to structured programming with business applications. Programming logic and data structures are introduced. The course especially emphasizes hands-on exercises using Excel macros and Visual Basic for Applications (VBA), and covers business functions and analytics.

Restricted to students in the Smith School's TBT Fellows program.

FP01	Peng Huang TuTh 11:00am - 12:15pm Th 5:00pm - 6:00pm	Seats (Total: 36) VMH 2203 VMH 1303	 Discussion

BMGT310 **Intermediate Accounting I**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT221.

Comprehensive analysis of financial accounting topics related to financial statement preparation and external reporting.

0101	Musa Subasi TuTh 11:00am - 12:15pm	Seats (Total: 35) VMH 1307
	Restricted to Accounting and Finance majors with 53 credit hours completed.	
0201	Mary Keim TuTh 2:00pm - 3:15pm	Seats (Total: 35) VMH 1311
	Restricted to Accounting and Finance majors with 53 credit hours completed.	
0301	Musa Subasi TuTh 12:30pm - 1:45pm	Seats (Total: 35) VMH 1411
	Restricted to Accounting and Finance majors with 53 credit hours completed.	
0401	Mary Keim MW 2:00pm - 3:15pm	Seats (Total: 35) VMH 1518
	Restricted to Accounting and Finance majors with 53 credit hours completed.	
SG91	Mary Keim TuTh 9:30am - 10:45am	Seats (Total: 45) BLD3 3225
	Restricted to Junior BMGT-Shady Grove students majoring in Accounting. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.	
SG92	Mary Keim TuTh 11:00am - 12:15pm	Seats (Total: 45) BLD3 3225
	Restricted to BMGT-Shady Grove Juniors majoring in Accounting. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.	

BMGT311 Intermediate Accounting II

Credits: 3 Grading Method: Regular

Prerequisite: BMGT310.

Continuation of BMGT310.

0101	Oliver Kim TuTh 11:00am - 12:15pm	Seats (Total: 35) VMH 1415
	Restricted to accounting majors with 60 credit hours completed.	

0201	Stephen Brown MW 9:30am - 10:45am *Restricted to accounting majors with 60 credit hours completed.*	Seats (Total: 35) VMH 1206
0301	Oliver Kim TuTh 3:30pm - 4:45pm *Restricted to accounting majors with 60 credit hours completed.*	Seats (Total: 35) VMH 1314
SG91	Samuel Handwerger TuTh 2:00pm - 3:15pm *Restricted to BMGT-Shady Grove Seniors majoring in Accounting.*	Seats (Total: 30) BLD3 3226

BMGT313 Financial Statement Analysis

Credits: 3 Grading Method: Regular

Prerequisite: BMGT221.

Provides students with the tools to conduct a financial statement analysis, which is part of an overall business analysis. Involves understanding and using the information that financial statements are communicating to users.

Restricted to Accounting and Finance majors with 53 credits completed.

0101	Brent Solomon TuTh 2:00pm - 3:15pm	Seats (Total: 45) VMH 1418

BMGT313F Financial Statement Analysis

Credits: 3 Grading Method: Regular

Prerequisite: BMGT221.

Provides students with the tools to conduct a financial statement analysis, which is part of an overall business analysis. Involves understanding and using the information that financial statements are communicating to users.

FP01	Brent Solomon TuTh 9:30am - 10:45am *Restricted to Banking & Private Wealth Management Fellows (FPFS) and Emerging CFOs (FPEC).*	Seats (Total: 35) VMH 1314

FP02	Brent Solomon	Seats (Total: 35)
	TuTh 11:00am - 12:15pm	VMH 1314
	Restricted to Banking & Private Wealth Management Fellows (FPFS) and Emerging CFOs (FPEC).	

BMGT321 Managerial Accounting

Credits: 3 Grading Method: Regular

Prerequisite: BMGT221.

A study of the basic concepts of product costing and cost analysis for management planning and control. Emphasis is placed on the role of the accountant in organizational management, analysis of cost behavior, standard cost budgeting, responsibility accounting and relevant costs for decision-making.

0101	Michael Finch	Seats (Total: 35)
	MW 11:00am - 12:15pm	VMH 1206
0201	Michael Finch	Seats (Total: 35)
	MW 12:30pm - 1:45pm	VMH 1206
	Restricted to BMGT majors with 53 credit hours completed.	
0301	Michael Finch	Seats (Total: 35)
	MW 3:30pm - 4:45pm	VMH 1418
	Restricted to BMGT majors with 53 credit hours completed.	
SG91	Michael Finch	Seats (Total: 30)
	TuTh 11:00am - 12:15pm	BLD3 3240
	Restricted to BMGT-Shady Grove Seniors majoring in Accounting. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.	
SG92	Michael Finch	Seats (Total: 30)
	TuTh 12:30pm - 1:45pm	BLD3 3240
	Restricted to BMGT-Shady Grove Seniors majoring in Accounting. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.	

BMGT323 Taxation of Individuals

Credits: 3 Grading Method: Regular

Prerequisite: BMGT221.

Federal taxation of individuals focusing on income, exclusions, deductions, depreciation, credits and capital transactions. Property coverage includes the tax consequences of sales and dispositions of investment and business assets. Both tax planning and compliance issues are covered.

0101	Jeffrey Milton MW 3:30pm - 4:45pm *Restricted to Accounting majors with 53 credit hours completed.*	Seats (Total: 35) VMH 1314
0201	Jeffrey Milton MW 11:00am - 12:15pm *Restricted to Accounting majors with 53 credit hours completed.*	Seats (Total: 35) VMH 1314
0301	Leslie Mostow MW 9:30am - 10:45am *Restricted to Accounting majors with 53 credit hours completed.*	Seats (Total: 35) VMH 1314

BMGT326 Accounting Systems

Credits: 3 Grading Method: Regular

Prerequisite: BMGT221; and (BMGT201 or BMGT301).

A study of accounting systems and computer and communications technology.

0101	Mesut Polat MW 11:00am - 12:15pm *Restricted to Accounting majors with 60 credit hours completed.*	Seats (Total: 35) VMH 1411
0201	James McKinney TuTh 12:30pm - 1:45pm *Restricted to Accounting majors with 60 credit hours completed.*	Seats (Total: 35) VMH 1336
0301	James McKinney TuTh 2:00pm - 3:15pm *Restricted to Accounting majors with 60 credit hours completed.*	Seats (Total: 35) VMH 1336

BMGT332 Quantitative Models for Management Decisions

Credits: 3 Grading Method: Regular

Prerequisite: BMGT231 or BMGT230; or students who have taken courses with comparable content may contact the department.

The aim of this course is to introduce management science techniques for informed decision-making that can be applied in spreadsheet models to assist in the decision-analysis process. Models include Linear Programming, Transportation and Assignment problems, network flow models, Integer and non-linear programming, Simulation and Decision Trees.

Restricted to BMGT majors and Quest students with 53 credit hours completed.

0101	Kazim Ruhi TuTh 12:30pm - 1:45pm	Seats (Total: 45) VMH 1511
0201	Maria Bardossy TuTh 2:00pm - 3:15pm	Seats (Total: 45) VMH 1333
0301	Kazim Ruhi TuTh 5:00pm - 6:15pm	Seats (Total: 45) VMH 1333
0401	Kazim Ruhi TuTh 3:30pm - 4:45pm	Seats (Total: 45) VMH 1524

BMGT340 Business Finance

Credits: 3 Grading Method: Regular

Prerequisite: BMGT221; and (BMGT231 or BMGT230).

Topics include: the principles and practices involved in the organization, financing and rehabilitation of business enterprises; the various types of securities and their use in raising funds, apportioning income, risk and control; intercorporate relations; and new developments. Emphasis on solution of problems of financial policy faced by management.

0101	Michael Padhi MW 12:30pm - 1:45pm Class time/details on ELMs *Restricted to BMGT majors with 53 credit hours completed.*	Seats (Total: 60) VMH 1520 ONLINE
0201	Karen Hallows MW 2:00pm - 3:15pm Class time/details on ELMs *Restricted to BMGT majors with 53 credit hours completed.*	Seats (Total: 62) VMH 1333 ONLINE

0301	Michael Padhi MW 11:00am - 12:15pm Class time/details on ELMs *Restricted to BMGT majors with 53 credit hours completed.*	Seats (Total: 53) VMH 1412 ONLINE
0401	Michael Padhi MW 9:30am - 10:45am Class time/details on ELMs *Restricted to BMGT majors with 53 credit hours completed.*	Seats (Total: 62) VMH 1412 ONLINE
0501	Karen Hallows TuTh 11:00am - 12:15pm Class time/details on ELMs *Restricted to BMGT majors with 53 credit hours completed.*	Seats (Total: 62) VMH 1412 ONLINE
0601	Karen Hallows TuTh 3:30pm - 4:45pm Class time/details on ELMs *Restricted to BMGT majors with 53 credit hours completed.*	Seats (Total: 62) VMH 1412 ONLINE
0701	Karen Hallows TuTh 12:30pm - 1:45pm Class time/details on ELMs *Restricted to BMGT majors with 53 credit hours completed.*	Seats (Total: 62) VMH 1412 ONLINE
SG91	Michael Padhi TuTh 11:00am - 12:15pm *Restricted to BMGT-Shady Grove Juniors. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.*	Seats (Total: 45) BLD2 2032
SG92	Michael Padhi TuTh 12:30pm - 1:45pm *Restricted to BMGT-Shady Grove Juniors. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.*	Seats (Total: 45) BLD2 2032

SG93	Michael Padhi	Seats (Total: 45)
	TuTh 2:00pm - 3:15pm	BLD2 2032
	Restricted to BMGT-Shady Grove Juniors. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.	

BMGT340F **Business Finance**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT221; and (BMGT231 or BMGT230).

Topics include: the principles and practices involved in the organization, financing and rehabilitation of business enterprises; the various types of securities and their use in raising funds, apportioning income, risk and control; intercorporate relations; and new developments. Emphasis on solution of problems of financial policy faced by management.

Restricted to students in the Smith School's Sophomore Wall Street Fellows Program.

FP01	David Kass	Seats (Total: 35)
	MW 2:00pm - 3:15pm	VMH 1411

BMGT340H **Business Finance**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: BMGT221; and (BMGT231 or BMGT230).

Topics include: the principles and practices involved in the organization, financing and rehabilitation of business enterprises; the various types of securities and their use in raising funds, apportioning income, risk and control; intercorporate relations; and new developments. Emphasis on solution of problems of financial policy faced by management.

Restricted to BMGT Honors students with 53 credit hours completed.

0101	James Seward	Seats (Total: 35)
	MW 5:00pm - 6:15pm	VMH 1518

BMGT340N **Business Finance**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT221; and (BMGT231 or BMGT230).

Topics include: the principles and practices involved in the organization, financing and rehabilitation of business enterprises; the various types of securities and their use in raising funds, apportioning income, risk and control; intercorporate relations; and new developments. Emphasis on solution of problems of financial policy faced by management.

Restricted to agricultural and resource economics majors (0111C) with 53 credit hours completed.

0301	Michael Padhi MW 11:00am - 12:15pm Class time/details on ELMs	Seats (Total: 9) VMH 1412 ONLINE

BMGT341 **Financial Markets**

Credits: 3 Grading Method: Regular

Prerequisite: Must have completed or be concurrently enrolled in BMGT340. Formerly: BMGT498G.

Shows the interconnectedness of the markets. The role of the Central bank and monetary policy is included in this context. Students develop an understanding of: (i) the determination of interest rates; (ii) financial instruments, markets and institutions; (iii) the impact of monetary policy on institutions; and (iv) how financial innovations create markets.

Restricted to Finance majors with 60 credit hours completed.

0101	Julie Pavlovsky TuTh 9:30am - 10:45am	Seats (Total: 45) VMH 1411
0201	Julie Pavlovsky TuTh 11:00am - 12:15pm	Seats (Total: 45) VMH 1411
0301	Julie Pavlovsky TuTh 2:00pm - 3:15pm	Seats (Total: 45) VMH 1411

BMGT342F **Wall Street Finance**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: BMGT340. Credit only granted for: BMGT448F or BMGT342. Formerly: BMGT448F.

Using concepts and tools of finance, students will examine a wide range of business problems and explore possible solutions. The course is designed to improve a student's problem solving capabilities, business writing and communication skills, teamwork, and planning skills. Students will also gain experience in analyzing issues frequently faced by financial decision-makers.

Restricted to Junior Wall Street Fellows.

FP01	Julie Pavlovsky TuTh 3:30pm - 4:45pm	Seats (Total: 22) VMH 1307

BMGT343 **Investments**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT340. Credit only granted for: BMGT343 or ECON435. Additional information: This course cannot be used to fulfill any requirements for majors in Economics.

An introduction to financial investments. Topics include: securities and securities markets; investment risks, returns and constraints; portfolio policies; and institutional investment policies.

Restricted to Finance majors with 60 credit hours completed.

0101	Ryan Guttridge MW 12:30pm - 1:45pm	Seats (Total: 45) VMH 1418
0201	Kenneth Fuller TuTh 11:00am - 12:15pm	Seats (Total: 45) VMH 1418
0301	Kenneth Fuller TuTh 12:30pm - 1:45pm	Seats (Total: 45) VMH 1418
0401	Ryan Guttridge MW 11:00am - 12:15pm	Seats (Total: 45) VMH 1336
0501	Ryan Guttridge MW 5:00pm - 6:15pm	Seats (Total: 45) VMH 1307

BMGT345 **Foundations of Financial Management for Non Business Majors**

Credits: 3 Grading Method: Regular

Restriction: Must not have completed BMGT340; and must not be a major in the R.H. Smith School of Business. Credit only granted for: BMGT345 or BMGT340. Additional information: Course does not apply to a Smith School degree. BMGT340 may substitute for BMGT345.

Provides students an overview of financial management. Students will understand how to accomplish the firm goal of maximizing shareholder value, learn how to conduct a financial statement analysis, and recognize its various elements, including profitability, credit risk, revenue, assets, liability, and cash flows. Understand the relationship between risk and return and how it impacts investment and corporate decisions.

Restricted to General Business Minors.

0101	Karen Hallows MW 3:30pm - 4:45pm Class time/details on ELMs	Seats (Total: 100) SQH 1120 ONLINE

BMGT350 Marketing Principles and Organization

Credits: 3 Grading Method: Regular

Recommended: ECON200.

An introduction to the concepts and principles of marketing including the marketing of service and nonprofit organizations. Provides an overview of all the concepts in marketing including relationship marketing, product development, pricing, promotion, marketing research, consumer behavior, international marketing, distribution and internal marketing to employees.

0101	Mary Beth Furst M 9:30am - 10:45am Class time/details on ELMs *Restricted to BMGT majors with 53 credit hours completed.*	Seats (Total: 60) VMH 1520 ONLINE
0201	Roxanne Lefkoff M 12:30pm - 1:45pm Class time/details on ELMs *Restricted to BMGT majors with 53 credit hours completed.*	Seats (Total: 60) VMH 1303 ONLINE
0301	Roxanne Lefkoff M 2:00pm - 3:15pm Class time/details on ELMs *Restricted to BMGT majors with 53 credit hours completed.*	Seats (Total: 60) VMH 1303 ONLINE
0401	Marjorie Bonavia W 9:30am - 10:45am Class time/details on ELMs *Restricted to BMGT majors with 53 credit hours completed.*	Seats (Total: 57) VMH 1520 ONLINE
0501	Marjorie Bonavia W 12:30pm - 1:45pm Class time/details on ELMs *Restricted to BMGT majors with 53 credit hours completed.*	Seats (Total: 60) VMH 1303 ONLINE

0601	Marjorie Bonavia W 2:00pm - 3:15pm Class time/details on ELMs *Restricted to BMGT majors with 53 credit hours completed.*	Seats (Total: 60) VMH 1303 ONLINE
0701	Marjorie Bonavia Tu 11:00am - 12:15pm Class time/details on ELMs *Restricted to BMGT majors with 53 credit hours completed.*	Seats (Total: 60) VMH 1212 ONLINE
SG91	Henry Boyd MW 9:30am - 10:45am *Restricted to BMGT-Shady Grove Juniors. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.*	Seats (Total: 43) BLD3 3202
SG92	Henry Boyd MW 11:00am - 12:15pm *Restricted to BMGT-Shady Grove Juniors. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.*	Seats (Total: 43) BLD3 3202
SG93	Henry Boyd MW 2:00pm - 3:15pm *Restricted to BMGT-Shady Grove Juniors. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.*	Seats (Total: 43) BLD3 3202

BMGT350H **Marketing Principles and Organization**

(Perm req)

Credits: 3 Grading Method: Regular

Recommended: ECON200.

An introduction to the concepts and principles of marketing including the marketing of service and nonprofit organizations. Provides an overview of all the concepts in marketing including relationship marketing, product development, pricing, promotion, marketing research, consumer behavior, international marketing, distribution and internal marketing to employees.

Restricted to BMGT Honors students with 53 credit hours completed.

0101	Roxanne Lefkoff TuTh 9:30am - 10:45am	Seats (Total: 35) VMH 1336

BMGT350N **Marketing Principles and Organization**

Credits: 3 Grading Method: Regular

Recommended: ECON200.

An introduction to the concepts and principles of marketing including the marketing of service and nonprofit organizations. Provides an overview of all the concepts in marketing including relationship marketing, product development, pricing, promotion, marketing research, consumer behavior, international marketing, distribution and internal marketing to employees.

Restricted to agricultural and resource economics (0111C) and horticulture (0107C) majors with 53 credit hours completed.

0401	Marjorie Bonavia W 9:30am - 10:45am Class time/details on ELMs	Seats (Total: 3) VMH 1520 ONLINE

BMGT352 **Customer-Centric Innovation**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT350.

Addresses the management of new products and services with a focus on the innovation process, specifically the development and launching of new products or services: Opportunity Identification, Concept Generation, Design, Testing and Launch.

0101	Yogesh Joshi TuTh 9:30am - 10:45am *Restricted to BMGT majors and students in the QUEST program with 60 credit hours completed.*	Seats (Total: 35) VMH 1415

BMGT353 **Retail Management**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT220 and BMGT350.

Planning and implementing retail marketing strategy. Store and nonstore (catalog, internet) retailing. Evaluation of how environmental trends in the consumer market, competition, the economy and technology affect retail strategy in the U.S. and global market.

Restricted to BMGT majors with 60 credit hours completed.

0101	Jie Zhang TuTh 2:00pm - 3:15pm	Seats (Total: 35) VMH 1314
0201	Jie Zhang TuTh 12:30pm - 1:45pm	Seats (Total: 35) VMH 1314

BMGT355 **Foundations of Marketing for Non Business Majors**

Credits: 3 Grading Method: Regular

Restriction: Must not have completed BMGT350; and must not be a major in the R.H. Smith School of Business. Credit only granted for: BMGT355 or BMGT350. Additional information: Course does not apply to a Smith School degree. BMGT350 may substitute for BMGT355.

Introduces the concepts and principles of marketing. Provides an overview of all the concepts in marketing including relationship marketing, product development, pricing, promotion, marketing research, consumer behavior, international marketing, distribution and internal marketing to employees.

Restricted to General Business Minors. Blended.

0101	Mary Beth Furst Tu 12:30pm - 1:45pm Class time/details on ELMs	Seats (Total: 53) TWS 1310 ONLINE
0201	Mary Beth Furst Th 12:30pm - 1:45pm Class time/details on ELMs	Seats (Total: 53) TWS 1310 ONLINE

BMGT360 **Strategic Management of Human Capital**

Credits: 3 Grading Method: Regular

Provides students with the basic knowledge needed to help organizations attract, select, develop, engage, evaluate, and retain talent. Topics covered may include strategic HRM, the role of globalization, legal issues in HRM, work analysis, HR planning, recruitment, personnel selection, performance management and appraisal, training and development, career development, compensation systems, motivating and rewarding performance, labor relations, and employee health and safety.

0101	Jeffrey Kudisch MW 2:00pm - 3:15pm *Open to all students with 53 credit hours completed.*	Seats (Total: 60) VMH 1212

0201	Jeffrey Kudisch	Seats (Total: 60)
	MW 3:30pm - 4:45pm	VMH 1212
	Open to all students with 53 credit hours completed.	

BMGT362 **Negotiations**

Credits: 3 Grading Method: Regular

Restriction: Must not have completed COMM425. Credit only granted for: BMGT362 or COMM425.

By using a variety of assessment tools, feedback sources, skill-building exercises, and exercise debriefings, this experiential course is designed to enhance students' negotiating self-confidence and improve students' analytical skills, interpersonal skills, creativity and persuasive abilities.

Restricted to Management majors with 53 credit hours completed.

0101	Jeffrey Kudisch, Gosia Langa Basit	Seats (Total: 45)
	TuTh 12:30pm - 1:45pm	VMH 1206

BMGT363 **Leadership and Teamwork in Organizations**

Credits: 3 Grading Method: Regular

Provides a comprehensive understanding of fundamental leadership concepts, theories, and skills in organizations and applies to assessing and developing effective leadership practices in organizations.

Restricted to Management majors with 53 credit hours completed.

0101	Myeong-Gu Seo	Seats (Total: 49)
	TuTh 11:00am - 12:15pm	VMH 1336

BMGT364 **Managing People and Organizations**

Credits: 3 Grading Method: Regular

An introduction to selected aspects of human behavior in organizations generally known as organizational behavior (OB). This course is designed to help students develop systematic and fundamental understanding of people and their behaviors in organizations, as well as useful abilities and skills required to effectively and ethically manage various individual, interpersonal, group, and organization-level processes.

0101	Nicole Coomber	Seats (Total: 55)
	MW 8:00am - 9:15am	VMH 1303
	Restricted to BMGT majors with 53 credit hours completed.	

0201	Nicole Coomber MW 9:30am - 10:45am *Restricted to BMGT majors with 53 credit hours completed.*	Seats (Total: 60) VMH 1303
0301	Roy Thomason MW 5:00pm - 6:15pm *Restricted to BMGT majors with 53 credit hours completed.*	Seats (Total: 60) VMH 1303
0401	Trevor Foulk TuTh 8:00am - 9:15am *Restricted to BMGT majors with 53 credit hours completed.*	Seats (Total: 60) VMH 1412
0501	Trevor Foulk TuTh 9:30am - 10:45am *Restricted to BMGT majors with 53 credit hours completed.*	Seats (Total: 60) VMH 1412
0601	Roy Thomason M 7:00pm - 9:40pm *Restricted to BMGT majors with 53 credit hours completed.*	Seats (Total: 60) VMH 1412
0701	Danielle Wang Tu 7:00pm - 9:40pm *Restricted to BMGT majors with 53 credit hours completed.*	Seats (Total: 60) VMH 1303
SG91	Gregory Marr MW 8:00am - 9:15am *Restricted to BMGT-Shady Grove Juniors. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.*	Seats (Total: 41) BLD2 2052
SG92	Gregory Marr MW 9:30am - 10:45am *Restricted to BMGT-Shady Grove Juniors. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.*	Seats (Total: 41) BLD2 2052

SG93	Gregory Marr MW 11:00am - 12:15pm	Seats (Total: 41) BLD2 2052
	Restricted to BMGT-Shady Grove Juniors. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.	

BMGT364M **Managing People and Organizations**

Credits: 3 Grading Method: Regular

An introduction to selected aspects of human behavior in organizations generally known as organizational behavior (OB). This course is designed to help students develop systematic and fundamental understanding of people and their behaviors in organizations, as well as useful abilities and skills required to effectively and ethically manage various individual, interpersonal, group, and organization-level processes.

Restricted to General Business Minors

0101	Gregory Marr M 2:00pm - 3:15pm Class time/details on ELMs	Seats (Total: 120) JMP 3201 ONLINE

BMGT364N **Managing People and Organizations**

Credits: 3 Grading Method: Regular

An introduction to selected aspects of human behavior in organizations generally known as organizational behavior (OB). This course is designed to help students develop systematic and fundamental understanding of people and their behaviors in organizations, as well as useful abilities and skills required to effectively and ethically manage various individual, interpersonal, group, and organization-level processes.

Restricted to agricultural and resource economics (0111C) and dietetics (1307D) majors with 53 credit hours completed.

0101	Nicole Coomber MW 8:00am - 9:15am	Seats (Total: 5) VMH 1303

BMGT365 **Entrepreneurial Finance and Private Equity**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT461 or BMGT361. Restriction: Junior standing or higher. Credit only granted for: BMGT365, ENES466 or HLMN471.

Studies venture capital and private equity using a combination of cases lectures and guest speakers. Addresses how venture capitalists provide capital to start-up firms in growing industries and how private equity markets provide capital to help established medium-sized firms (often family businesses) grow and restructure. Focuses on how financial, legal, and economic issues are dealt with in the financial contracts between venture capitalists and their limited partners and between capitalists (or other private equity investors) and the firms in which they invest.

Restricted to BMGT majors with 72 credit hours completed and Innovation and Entrepreneurship minors.

0101	James Campbell	Seats (Total: 40)
	MW 5:00pm - 6:15pm	VMH 1418

BMGT366 **Growth Strategies for Emerging Companies**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT461 or BMGT361. Restriction: Junior standing or higher.

Offers practical management tools that are needed to build a new venture into a significant enterprise. The competencies, strategies and structures of successful high performance businesses are studied through cases, videos and guest lecturers. Topics include leadership, internal growth strategies, merger, acquisition and franchising.

Restricted to Innovation and Entrepreneurship Minors and Management Majors.

0101	David Kirsch, David Kressler	Seats (Total: 40)
	TuTh 9:30am - 10:45am	SQH 1103

BMGT367 **Career Search Strategies in Business**

Credits: 1 Grading Method: Regular

Restriction: Must be in a major in BMGT-Robert H. Smith School of Business.

An overview and opportunity to practice job search skills critical to obtaining internships and full-time positions. Course will cover strategies for exploring career options, preparing job search materials, development of job search skills such as interviewing and networking. Students are encouraged to take this course in the sophomore or junior year.

0101	Daniel Hennigan, Erin Saddler	Seats (Total: 50)
	M 5:00pm - 5:50pm	VMH 1212
	Restricted to BMGT students with 45 credit hours completed.	

0201	Erin Saddler, Susan Powell Tu 5:00pm - 5:50pm *Restricted to BMGT students with 45 credit hours completed.*	Seats (Total: 50) VMH 1303
0301	Erin Saddler, Michelle Doan W 5:00pm - 5:50pm *Restricted to BMGT students with 45 credit hours completed.*	Seats (Total: 50) VMH 1212
0401	Erin Saddler, Michael Poerksen M 6:00pm - 6:50pm *Restricted to BMGT students with 45 credit hours completed.*	Seats (Total: 50) VMH 1212
0501	Erin Saddler, Michelle Morrison W 5:00pm - 5:50pm *Restricted to BMGT students with 45 credit hours completed.*	Seats (Total: 45) VMH 1206
SG91	Sadie Edmonds, Erin Saddler W 5:00pm - 5:50pm *Restricted to BMGT-Shady Grove Juniors majroing in Management and Marketing. Other students may request enrollment on a space available basis. UMCP undergraduate students are not eligible to enroll at Shady Grove.*	Seats (Total: 45) BLD2 2032
SG92	Katherine Marrero, Erin Saddler W 5:00pm - 5:50pm *Restricted to BMGT-Shady Grove Juniors majoring in Accounting. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.*	Seats (Total: 45) BLD2 2062
SG93	Erin Saddler, Rachel Cotton W 5:00pm - 5:50pm *Restricted to BMGT-Shady Grove Juniors majroing in Accounting. Other students may request enrollment on a space available basis. UMCP undergraduate students are not eligible to enroll at Shady Grove.*	Seats (Total: 45) BLD2 3052

BMGT370 Introduction to Transportation

Credits: 3 Grading Method: Regular

An overview of the transportation field with an emphasis on freight movements from the perspective of both providers of capacity and users of freight services. Examines the characteristics of the freight modes and the role of each mode as a major component of logistics and supply chain management. Explores the economics, energy use, and finances of each mode as well as the impact of government policies on each mode's future. Discussion of infrastructure and capacity needs of the transportation system and its ability to support the economy.

Restricted to BMGT majors with 53 credit hours completed.

0101	Leland Gardner TuTh 8:00am - 9:15am	Seats (Total: 42) VMH 1335
0201	Leland Gardner TuTh 9:30am - 10:45am	Seats (Total: 42) VMH 1335

BMGT372 **Introduction to Logistics and Supply Chain Management**

Credits: 3 Grading Method: Regular

Supply chain management involves the coordination of suppliers, manufacturers, distributors, and retailers to ensure that products and services are available to the final consumer in a timely and cost-effective fashion. Logistics management is the subset of supply chain management dealing with the physical flows of product and includes such activities as transportation management, warehousing, materials handling, inventory management, and order fulfillment. Attention is paid to the logistics cost trade-offs within the firm and between members of the supply chain.

Restricted to BMGT majors with 53 credit hours completed.

0101	Humberto Coronado TuTh 9:30am - 10:45am	Seats (Total: 41) VMH 1206
0201	Humberto Coronado TuTh 11:00am - 12:15pm	Seats (Total: 41) VMH 1206
0301	Leland Gardner MW 11:00am - 12:15pm	Seats (Total: 41) VMH 1418
0401	Richard Hutchins TuTh 12:30pm - 1:45pm	Seats (Total: 40) VMH 1311

BMGT372M **Introduction to Logistics and Supply Chain Management**

Credits: 3 Grading Method: Regular

Supply chain management involves the coordination of suppliers, manufacturers, distributors, and retailers to ensure that products and services are available to the final consumer in a timely and cost-effective fashion. Logistics management is the subset of supply chain management dealing with the physical flows of product and includes such activities as transportation management, warehousing, materials handling, inventory management, and order fulfillment. Attention is paid to the logistics cost trade-offs within the firm and between members of the supply chain.

Restricted to General Business Minors.

0101	Hugh Turner TuTh 2:00pm - 3:15pm Class time/details on ELMs	Seats (Total: 60) ESJ 2208 ONLINE

BMGT380 **Business Law I**

Credits: 3 Grading Method: Regular

Legal aspects of business relationships. Examination of torts and business crimes, contracts and agency. The law of personal property and bailment relationships. Survey of public policy issues.

0101	Justin Reyna TuTh 8:00am - 9:15am *Restricted to BMGT majors with 53 credit hours completed. Other interested students should review their eligibility for BMGT 380N.*	Seats (Total: 45) VMH 1303
0201	T Anenson MW 3:30pm - 4:45pm *Restricted to BMGT majors with 53 credit hours completed. Other interested students should review their eligibility for BMGT 380N.*	Seats (Total: 60) VMH 1412
0301	T Anenson MW 5:00pm - 6:15pm *Restricted to BMGT majors with 53 credit hours completed. Other interested students should review their eligibility for BMGT 380N.*	Seats (Total: 60) VMH 1412
0401	T Anenson MW 2:00pm - 3:15pm *Restricted to BMGT majors with 53 credit hours completed. Other interested students should review their eligibility for BMGT 380N.*	Seats (Total: 60) VMH 1412

0501	Justin Reyna TuTh 9:30am - 10:45am	Seats (Total: 60) VMH 1303
	Restricted to BMGT majors with 53 credit hours completed. Other interested students should review their eligibility for BMGT 380N.	
0601	Justin Reyna TuTh 2:00pm - 3:15pm	Seats (Total: 60) VMH 1303
	Restricted to BMGT majors with 53 credit hours completed. Other interested students should review their eligibility for BMGT 380N.	
0701	Richard Daniels TuTh 3:30pm - 4:45pm	Seats (Total: 60) VMH 1303
	Restricted to BMGT majors with 53 credit hours completed. Other interested students should review their eligibility for BMGT 380N.	
SG91	Jennifer Gershberg MW 9:30am - 10:45am	Seats (Total: 60) BLD3 4202
	Restricted to BMGT-shady Grove Seniors. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.	
SG92	Jennifer Gershberg MW 11:00am - 12:15pm	Seats (Total: 60) BLD3 4202
	Restricted to BMGT-Shady Grove Seniors. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.	

BMGT380N **Business Law I**

Credits: 3 Grading Method: Regular

Legal aspects of business relationships. Examination of torts and business crimes, contracts and agency. The law of personal property and bailment relationships. Survey of public policy issues.

Restricted to agricultural and resource economics majors (0111C) with 53 credit hours completed.

0101	Justin Reyna TuTh 8:00am - 9:15am	Seats (Total: 10) VMH 1333

BMGT382 **Marketing and Innovation for Entrepreneurs**

Credits: 3 Grading Method: Regular

Restriction: Must not have completed BMGT352. Credit only granted for: BMGT352 or BMGT382. Additional information: Course will not satisfy a Marketing major requirement.

Marketing and Innovation are two critically important activities that determine success in any business venture. This course will focus on understanding the fundamentals of marketing and innovation from the perspective of an entrepreneur. At a broad level, we will apply proven marketing frameworks (STP and 4Ps) to effectively deliver innovation in an entrepreneurial context.

0101	Yogesh Joshi TuTh 11:00am - 12:15pm *Restricted to Innovation and Entrepreneurship Minors.*	Seats (Total: 40) TWS 1310
SG91	Mary Beth Furst TuTh 9:30am - 10:45am *Restricted to Junior BMGT-Shady Grove students majoring in Marketing. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.*	Seats (Total: 45) BLD2 3012

BMGT385 Operations Management

Credits: 3 Grading Method: Regular

Credit only granted for: BMGT385 or ENME426.

Studies the design, management and improvement of a firm's processes an systems for creation and delivery of products and services. Includes strategic and operational views of supply chain, product development, and capacity analysis, highlighting the competitive advantages that operations management can provide the firm.

Restricted to BMGT majors and QUEST program students with 53 credit hours completed and to Business Process Fellows.

0101	Kazim Ruhi TuTh 2:00pm - 3:15pm	Seats (Total: 45) VMH 1307
0201	Kazim Ruhi TuTh 11:00am - 12:15pm	Seats (Total: 45) VMH 1524

BMGT390H Systems Thinking for Managerial Decision Making

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENES190 or BMGT190; and must be a QUEST student. Also offered as: ENES390. Credit only granted for: BMGT390, ENES390, or ENES498X.

An introduction to the theory, concepts, tools, and practices of system thinking to enhance managerial decision making. Offers a blend of theory, real-life examples, and proven methods to initiate and sustain an organization-wide reorientation towards systems thinking.

Restricted to QUEST program students. Also offered as ENES390H.

0101	Joseph Bailey MW 2:00pm - 3:15pm	Seats (Total: 45) ESJ 1202

BMGT392 Introduction to International Business Management

Credits: 3 Grading Method: Regular

Prerequisite: ECON200.

A study of the domestic and foreign environmental factors affecting the international operations of U.S. business firms. The course also covers the administrative aspects of international marketing, finance and management.

Restricted to BMGT majors with 53 credit hours completed.

0101	Wilbur Chung TuTh 3:30pm - 4:45pm	Seats (Total: 30) VMH 1418
0201	Wilbur Chung TuTh 5:00pm - 6:15pm	Seats (Total: 30) VMH 1418

BMGT397 Mentoring Design and Quality Teams

Credits: 3 Grading Method: Regular

Restriction: Restricted to QUEST Program (TQMP) students. Also offered as: ENES397. Credit only granted for: BMGT397, ENES397, or BMGT398D. Formerly: BMGT398D.

Practice essential skills for leading and coaching multidisciplinary teams. These include effective communications, facilitation, conflict resolution, and the ability to motivate. Students will practice these skills as mentors for student teams from BMGT/ENES 190H. In the process, they will strengthen their knowledge of design and quality techniques.

Restricted to QUEST program students. Also offered as ENES397.

0101	Pamela Armstrong Tu 5:00pm - 7:40pm	Seats (Total: 16) VMH 1415

BMGT398 Individual Study in Business and Management

(Perm req) Credits: 1-3 Grading Method: Regular

Contact department for information to register for this course.

BMGT398A **Individual Study in Business and Management; Internship**

(Perm req) Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Restricted to Smith School of Business students. Interested students should contact Erin Fields Saddler (esaddler@rhsmith.umd.edu) for details and permission.

0101	Erin Saddler Contact instructor or department for details.	Seats (Total: 35)
SG91	Erin Saddler Contact instructor or department for details.	Seats (Total: 10)

BMGT398C **Individual Study in Business and Management; Undergraduate Teaching Scholars Training**

(Perm req) Credits: 1 Grading Method: Regular, Pass-Fail

Restricted to Accounting Teaching Scholars (FPTS).

0101	Progyan Basu Contact instructor or department for details.	Seats (Total: 19)

BMGT398L **Individual Study in Business and Management; Innovo Consulting Practicum: Innovate Business Processes**

(Perm req) Credits: 3 Grading Method: Regular

Contact department for information to register for this course.

BMGT398T **Individual Study in Business and Management; The External Transfer Student in Smith**

(Perm req) Credits: 1 Grading Method: Regular

Restricted to incoming Fall Smith School External Transfer students only.

0101	Evan Riddle **Meets August 27, 2018 - October 17, 2018** Tu 5:00pm - 6:35pm	Seats (Total: 40) VMH 1411

BMGT402 **Database Systems**

Credits: 3 Grading Method: Regular

Recommended: BMGT302. Credit only granted for: INST327 or BMGT402.

The fundamentals of database management systems (DBMS), data models, query processing, and data warehouses, and their application in the development of business information systems will be covered. An important goal of this course is to understand the value of information resources and information management challenges within an organization.

Restricted to BMGT majors and Business Analytics minors with 72 credit hours completed.

0101	Sabari Karmegam TuTh 2:00pm - 3:15pm Tu 5:00pm - 5:50pm	Seats (Total: 38) VMH 2203 VMH 2203	 Lab
0201	Raveesh Mayya MW 3:30pm - 4:45pm Tu 6:00pm - 6:50pm	Seats (Total: 38) VMH 2203 VMH 2203	 Lab
0301	Woei-Jyh Lee TuTh 12:30pm - 1:45pm Tu 7:00pm - 7:50pm	Seats (Total: 38) VMH 2203 VMH 2203	 Lab
0401	Woei-Jyh Lee MW 8:00am - 9:15am Tu 8:00pm - 8:50pm	Seats (Total: 38) VMH 2203 VMH 2203	 Lab

BMGT403 Systems Analysis and Design

Credits: 3 Grading Method: Regular

Prerequisite: BMGT301; or students who have taken courses with comparable content may contact the department. Recommended: BMGT302.

Techniques and tools applicable to the analysis and design of computer-based information systems. System life cycle, requirements analysis, logical design of databases and performance evaluation. Emphasis on case studies. Project required that involves the design, analysis and implementation of an information system.

Restricted to BMGT majors with 72 credit hours completed.

0101	Hassan Ibrahim MW 11:00am - 12:15pm	Seats (Total: 38) VMH 2203
0201	Hassan Ibrahim Tu 7:00pm - 9:40pm	Seats (Total: 24) VMH 3522

0301	Hassan Ibrahim MW 12:30pm - 1:45pm	Seats (Total: 38) VMH 2203
0401	Hassan Ibrahim M 7:00pm - 9:40pm	Seats (Total: 38) VMH 2203

BMGT406 **Developing Applications for the Web and Social Media**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT402 and BMGT302. Restriction: Must be in a major in BMGT-Robert H. Smith School of Business. Credit only granted for: INST377 or BMGT406.

The design and development of Web applications and the underlying platforms and standards for Web application development will be covered. It will examine the phenomenon of social media, social networking and crowdsourcing and understand their use within organizations.

Restricted to BMGT majors with 72 credit hours completed.

0101	Louiqa Raschid MW 5:00pm - 6:50pm	Seats (Total: 30) VMH 2203

BMGT407 **Information Systems Projects**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT402 and BMGT403. Restriction: Senior standing.

Senior capstone course for the decision and information sciences major. Collected knowledge from the DIS courses and application to significant problems of size and complexity. State-of-the-art research ideas and current business and industrial practices in information systems.

Restricted to Information Systems majors with 86 credit hours completed.

0101	Hassan Ibrahim MW 2:00pm - 3:15pm	Seats (Total: 35) VMH 2203
0201	Hassan Ibrahim W 7:00pm - 9:40pm	Seats (Total: 35) VMH 2203

BMGT408E **Emerging Topics in Information Systems; Big Data and Artificial Intelligence for Business**

Credits: 3 Grading Method: Regular

Selected advanced topics covering emerging developments in the field of decision and information technologies.

Prerequisite: BMGT402. Restricted to BMGT majors with 72 credit hours completed. This course requires a relatively powerful laptop with at least 8 GB of memory and 30 GB of free space on hard drive.

0101	Guodong Gao MW 11:00am - 12:15pm	Seats (Total: 30) VMH 1520

BMGT411 **Ethics and Professionalism in Accounting**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT311. Restriction: Must be in Accounting program.

Analysis and discussion of issues relating to ethics and professionalism in accounting.

Restricted to Accounting majors with 86 credit hours completed.

0101	David Weber MW 11:00am - 12:15pm	Seats (Total: 35) VMH 1307
0201	David Weber MW 12:30pm - 1:45pm	Seats (Total: 35) VMH 1307
0301	Sandra Rose MW 2:00pm - 3:15pm	Seats (Total: 35) VMH 1314

BMGT417 **Taxation of Corporations, Partnerships and Estates**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT221.

Federal taxation of corporations using the life-cycle approach-formation, operation, assessment, merger, reorganization and liquidation. Overviews of pass-through entities - partnerships and s-corporations -using the life-cycle approach, and the tax consequences of wealth transfers by individuals - gift and estate taxation. Both tax planning and compliance issues are addressed.

Restricted to Accounting majors with 84 credit hours completed.

0101	Alexander Ruygrok MW 5:00pm - 6:15pm	Seats (Total: 40) VMH 1411

BMGT422 **Auditing Theory and Practice**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT310; and must have completed or be concurrently enrolled in BMGT311.

A study of the independent accountant's attest function, generally accepted auditing standards, compliance and substantive tests and report forms and opinions.

0101	James McKinney TuTh 3:30pm - 4:45pm *Restricted to Accounting majors.*	Seats (Total: 38) VMH 1206
0201	James McKinney TuTh 5:00pm - 6:15pm *Restricted to Accounting majors.*	Seats (Total: 38) VMH 1206
0301	Mary Keim MW 12:30pm - 1:45pm *Restricted to Accounting majors.*	Seats (Total: 38) VMH 1518
SG91	Samuel Handwerger TuTh 12:30pm - 1:45pm *Restricted to BMGT-Shady Grove Seniors majoring in Accounting.*	Seats (Total: 30) BLD3 3226
SG92	Samuel Handwerger TuTh 11:00am - 12:15pm *Restricted to BMGT-Shady Grove Seniors majoring in Accounting.*	Seats (Total: 30) BLD3 3226

BMGT430 **Data Modeling in Business**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT231 or BMGT230; or permission of BMGT-Robert H. Smith School of Business.

Explores the role of statistical models in business analytics to drive managerial decision-making and improve performance through the use of relevant data-motivated examples. Topics include regression models (both simple and multiple regression, as well as logistic regression for binary data), model validation, variable transformation, variable selection, discriminant analysis, and forecasting. These topics are modeled using state-of-the-art data analytics software.

Restricted to BMGT majors with 72 credit hours completed or students in the Business Analytics minor.

0101	Radu Lazar TuTh 5:00pm - 6:15pm	Seats (Total: 55) VMH 1202
0201	Radu Lazar MW 9:30am - 10:45am	Seats (Total: 55) VMH 1336
0301	Radu Lazar MW 11:00am - 12:15pm	Seats (Total: 38) VMH 1518

BMGT431 **Data Analytics**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT430.

An introduction to the tools and techniques that are central to the analysis of abundant data that is being collected in many forms including web traffic, social network data, and reviews and comments on websites.

Restricted to Business Analytics minors or OM majors.

0101	Courtney Paulson TuTh 2:00pm - 3:15pm	Seats (Total: 45) VMH 1206

BMGT434 **Analytics Consulting: Cases and Projects**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT332; and (MATH120 or MATH140; or must have completed MATH220). Or students who have taken courses with comparable content may contact the department. Restriction: Must be in a major in BMGT-Robert H. Smith School of Business.

This course assumes that students have already been introduced to the concepts and techniques of operations research/business analytics (OR/BA). Published papers, short cases, and projects in OR/BA will be analyzed and discussed in a thoughtful way, taking into account the soft (people-related) issues and the hard (mathematical/optimization) issues.

Restricted to BMGT majors, QUEST students, and Business Analytics minors with 72 credit hours completed.

0101	Bruce Golden MW 2:00pm - 3:15pm	Seats (Total: 40) VMH 1206

BMGT435 **Business Process Simulation**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT231 or BMGT230; or students who have taken courses with comparable content may contact the department. Restriction: Must be in a major in BMGT-Robert H. Smith School of Business.

Develop and plan simulation studies, build simulation models with special purpose software, analyze and interpret the results. Extensive use of applications and real-world examples. The emphasis is on model formulation and the interpretation of results, rather than mathematical theory.

Restricted to BMGT majors or Business Analytics minors with 60 credits completed.

0101	Sujin Kim TuTh 3:30pm - 4:45pm	Seats (Total: 45) VMH 1333

BMGT438A Special Topics in Operations Management; Applied Quantitative Analysis

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected advanced topics in operations management.

Course restricted to QUEST students. Also offered as ENES489A. Credit granted for BMGT438A or ENES489A.

0101	David Ashley, Joshua Kohn, Joseph Bailey M 5:00pm - 7:40pm	Seats (Total: 40) VMH 1415

BMGT440 Advanced Financial Management

Credits: 3 Grading Method: Regular

Prerequisite: BMGT340.

Analysis and discussion of cases and readings relating to financial decisions of the firm. The application of finance concepts to the solution of financial problems is emphasized.

Restricted to BMGT majors with 68 credit hours completed.

0101	Elinda Kiss MW 9:30am - 10:45am	Seats (Total: 45) VMH 1335
0201	David Kass TuTh 2:00pm - 3:15pm	Seats (Total: 45) VMH 1335

0301	David Kass TuTh 3:30pm - 4:45pm	Seats (Total: 45) VMH 1335
0401	Elinda Kiss MW 11:00am - 12:15pm	Seats (Total: 45) VMH 1335
0501	David Kass TuTh 11:00am - 12:15pm	Seats (Total: 45) VMH 1335

BMGT441 **Fixed Income**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT340. Credit only granted for: BMGT448A or BMGT441. Formerly: BMGT448A.

Describes important financial instruments which have market values that are sensitive to interest rate movements. Develops tools to analyze interest rate sensitivity and value fixed income securities. Defines and explains the vocabulary of the bond management business.

Restricted to Finance majors with 72 credit hours completed.

0101	Stefano Collina MW 12:30pm - 1:45pm	Seats (Total: 45) VMH 1411

BMGT443 **Applied Equity Analysis and Portfolio Management**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT343.

Study and application of the concepts, methods, models, and empirical findings to the analysis, valuation and selection of securities, especially common stock.

Restricted to BMGT majors with 84 credit hours completed.

0101	Joseph Perfetti MW 11:00am - 12:15pm	Seats (Total: 45) VMH 3505
0201	Joseph Perfetti MW 2:00pm - 3:15pm	Seats (Total: 45) VMH 3505
0301	Joseph Perfetti MW 3:30pm - 4:45pm	Seats (Total: 45) VMH 3505

0401	Joseph Perfetti MW 12:30pm - 1:45pm	Seats (Total: 45) VMH 3505

BMGT444 **Futures and Options Contracts**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT343. Credit only granted for: BMGT444 or MATH424.

The institutional features and economic rationale underlying markets in futures and options. Hedging, speculation, structure of futures prices, interest rate futures, efficiency in futures markets and stock and commodity options.

Restricted to Finance majors with 84 credit hours completed.

0101	Dilip Madan, Rajeev Bhattacharya M 7:00pm - 9:40pm	Seats (Total: 60) VMH 1303

BMGT445 **Banking and Financial Institutions**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT340. Recommended: ECON330 or BMGT341.

Analysis and discussion of cases and readings in commercial bank management. The loan function is emphasized; also the management of liquidity reserves, investments for income and source of funds. Bank objectives, functions, policies, organization, structure, services and regulation are considered.

Restricted to Finance majors with 84 credit hours completed.

0101	Elinda Kiss MW 2:00pm - 3:15pm	Seats (Total: 45) VMH 1335
0201	Elinda Kiss MW 3:30pm - 4:45pm	Seats (Total: 45) VMH 1335

BMGT446 **International Finance**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT340.

Financial management from the perspective of the multinational corporation. Topics covered include the organization and functions of foreign exchange and international capital markets, international capital budgeting, financing foreign trade and designing a global financing strategy. Emphasis of the course is on how to manage exchange and political risks while maximizing benefits from global opportunity sets faced by the firm.

Restricted to Finance and International Business majors with 72 credit hours completed.

0101	Shuaiqi Li TuTh 9:30am - 10:45am	Seats (Total: 40) VMH 1307
0201	Wei Zhou Th 7:00pm - 9:40pm	Seats (Total: 40) VMH 1206
0301	Steven Heston TuTh 12:30pm - 1:45pm	Seats (Total: 40) VMH 1307

BMGT448G **Special Topics in Finance; Quantitative Financial Analysis**

Credits: 3 Grading Method: Regular

Selected advanced topics in finance.

Prerequisite: BMGT230 and BMGT340. Pre-or Co-requisite: BMGT343. Restricted to Quantitative Finance Fellows.

FP01	Jinming Xue MW 9:30am - 10:45am	Seats (Total: 47) VMH 3505

BMGT448L **Special Topics in Finance; Hedge Fund Management**

Credits: 3 Grading Method: Regular

Selected advanced topics in finance.

Prerequisite: BMGT340. Restricted to Finance majors with 72 credit hours completed.

0101	Kenneth Brodkowitz TuTh 11:00am - 12:15pm	Seats (Total: 45) VMH 3505

BMGT449F **Investment Fund Management: Lemma Senbet Fund**

Credits: 3 Grading Method: Regular

The Lemma Senbet Fund is a year-long, advanced finance course available to undergraduate finance majors in their senior year. Ten to twelve students will be selected in the spring of their junior year to participate on the fund, two as portfolio managers and eight to ten as equity analysts. The course provides students with the opportunity to apply what they have learned in finance classes to actual investment decisions, through researching real companies and managing a portfolio of real money.

Restricted to Lemma Senbet Fund Fellows (FPSF).

FP01	Sarah Kroncke TuTh 10:00am - 11:50am	Seats (Total: 12) VMH 2509

BMGT451 Consumer Analysis

Credits: 3 Grading Method: Regular

Prerequisite: BMGT350. Recommended: PSYC100; and PSYC221.

Identifying buyer behavior concepts relevant to a specific marketing problem so that appropriate marketing decisions can be made. Conceptual frameworks are drawn from psychology, sociology, economics, and other social sciences to aid in understanding the behavior of ultimate and industrial buyers.

Restricted to Marketing majors with 68 credit hours completed.

0101	Yajin Wang MW 12:30pm - 1:45pm	Seats (Total: 38) VMH 1415
0201	Yuechen Wu MW 9:30am - 10:45am	Seats (Total: 38) VMH 1415
0301	Yuechen Wu MW 11:00am - 12:15pm	Seats (Total: 38) VMH 1415

BMGT452 Marketing Research Methods

Credits: 3 Grading Method: Regular

Prerequisite: BMGT350 and BMGT230.

Focuses on aiding marketing decision-making through exploratory, descriptive and casual research. Develops student skills in designing market research studies, including selection of data collection method, development of data collection instrument, sample design, collection and statistical analysis of data and reporting the results.

0101	Lingling Zhang TuTh 3:30pm - 4:45pm *Restricted to Marketing majors with 72 credit hours completed.*	Seats (Total: 32) VMH 1415
0201	Bo Zhou TuTh 2:00pm - 3:15pm *Restricted to Marketing majors with 72 credit hours completed.*	Seats (Total: 32) VMH 1415
0301	Lingling Zhang TuTh 9:30am - 10:45am *Restricted to Marketing majors with 72 credit hours completed.*	Seats (Total: 32) VMH 1418
SG91	Richard Toohey TuTh 11:00am - 12:15pm *Restricted to BMGT-Shady Grove Seniors majoring in Marketing. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.*	Seats (Total: 40) BLD3 4206

BMGT454 Global Marketing

Credits: 3 Grading Method: Regular

Prerequisite: BMGT350.

Marketing functions from the global executive's viewpoint, including coverage of global marketing policies relating to product adaptation, data collection and analysis, channels of distribution, pricing, communications and cost analysis. Consideration is given to the cultural, legal, financial and organizational aspects of global marketing.

0101	M Fardanesh TuTh 3:30pm - 4:45pm *Restricted to BMGT majors with 72 credit hours completed.*	Seats (Total: 40) VMH 1411
SG91	M Fardanesh TuTh 12:30pm - 1:45pm *Restricted to BMGT-Shady Grove Seniors majoring in Marketing and International Business. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.*	Seats (Total: 40) BLD2 3225

BMGT457 Marketing Policies and Strategies

Credits: 3 Grading Method: Regular CORE: CS

Prerequisite: BMGT350.

This capstone course ties together various marketing concepts using the fundamentals of strategic market planning as the framework. Application of these principles is accomplished by analyzing and discussing cases and by playing a marketing strategy computer simulation game. Analysis of current business articles to understand the link between theory and real-world problem solving.

Restricted to Marketing majors with 100 credit hours completed.

0101	Mary Harms TuTh 11:00am - 12:15pm	Seats (Total: 35) VMH 1518
0201	Mary Harms TuTh 12:30pm - 1:45pm	Seats (Total: 35) VMH 1518

BMGT458A **Special Topics in Marketing; Design and Innovation in Marketing**

(Perm req)

Credits: 3 Grading Method: Regular

Selected advanced topics in marketing.

FP01	Mary Harms TuTh 5:00pm - 6:15pm	Seats (Total: 35) VMH 1314
	Restricted to students in the Strategic Design and Innovation Fellows program.	

BMGT458B **Special Topics in Marketing; Design Applications in Marketing and Branding**

(Perm req)

Credits: 3 Grading Method: Regular

Selected advanced topics in marketing.

FP01	Howard Bomstein M 7:00pm - 9:40pm	Seats (Total: 36) VMH 1307
	Restricted to students in the Strategic Design and Innovation Fellows program.	

BMGT458K **Special Topics in Marketing; Big Data and Technology: Strategic Imperatives for the Hospitality Industry**

(Perm req)

Credits: 3 Grading Method: Regular

Selected advanced topics in marketing.

Restricted to students in the Hospitality Business Program.

0101	Daryl Rhead	Seats (Total: 12)
	M 5:30pm - 8:00pm	VMH 2509

BMGT458Q **Special Topics in Marketing; Computer Graphics Workshop**

Credits: 3 Grading Method: Regular

Selected advanced topics in marketing.

FP01	Kelly Driver	Seats (Total: 26)
	W 7:00pm - 9:40pm	ATL 1410
	Restricted to students in the Strategic Design and Innovation Fellows program.	

BMGT458R **Special Topics in Marketing; Advanced Computer Graphics Workshop**

Credits: 3 Grading Method: Regular

Selected advanced topics in marketing.

Restricted to students in the Strategic Design and Innovation Fellows program.

FP01	Kelly Driver	Seats (Total: 20)
	W 4:00pm - 6:40pm	ATL 1410

BMGT461 **Entrepreneurship**

Credits: 3 Grading Method: Regular General Education: DSSP

Restriction: Must not have completed BMGT361. Credit only granted for: BMGT261, BMGT361, BMGT461, ENES460 or HLMN470.

Process of creating new ventures, including evaluating the entrepreneurial team, the opportunity and the financing requirements. Skills, concepts, mental attitudes and knowledge relevant for starting a new business.

0101	Brent Goldfarb, David Kressler	Seats (Total: 20)
	Tu 7:00pm - 9:40pm	VMH 1206
	Restricted to BMGT majors with 72 credit hours completed. Non-majors should register for BMGT 461N.	

SG91	Oliver Schlake	Seats (Total: 45)
	Th 2:00pm - 4:40pm	BLD2 2062
	Restricted to BMGT-Shady Grove Juniors majoring in Management. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.	

BMGT461M **Entrepreneurship**

Credits: 3 Grading Method: Regular General Education: DSSP

Restriction: Must not have completed BMGT361. Credit only granted for: BMGT261, BMGT361, BMGT461, ENES460 or HLMN470.

Process of creating new ventures, including evaluating the entrepreneurial team, the opportunity and the financing requirements. Skills, concepts, mental attitudes and knowledge relevant for starting a new business.

Restricted to Innovation and Entrepreneurship Minors.

0101	David Kressler, Brent Goldfarb	Seats (Total: 60)
	TuTh 12:30pm - 1:45pm Class time/details on ELMs	TYD 2106 ONLINE

BMGT461N **Entrepreneurship**

Credits: 3 Grading Method: Regular General Education: DSSP

Restriction: Must not have completed BMGT361. Credit only granted for: BMGT261, BMGT361, BMGT461, ENES460 or HLMN470.

Process of creating new ventures, including evaluating the entrepreneurial team, the opportunity and the financing requirements. Skills, concepts, mental attitudes and knowledge relevant for starting a new business.

Open to all non-BMGT majors with 72 credit hours completed. BMGT majors should register for BMGT 461.

0101	Brent Goldfarb	Seats (Total: 20)
	Tu 7:00pm - 9:40pm	VMH 1206

BMGT463 **Cross-cultural Challenges in Business**

Credits: 3 Grading Method: Regular

Restriction: Must be in a major in BMGT-Robert H. Smith School of Business.

Examines in depth the nature of international cultural value-differences and their behavioral-related effects in the workplace. Topics include decision-making and leadership styles and reactions to various work assignments and reward structures.

0101	Debra Shapiro MW 2:00pm - 3:15pm *Restricted to International Business majors and Management majors with 72 credit hours completed.*	Seats (Total: 45) VMH 1418
SG91	Debra Shapiro TuTh 12:30pm - 1:45pm *Restricted to BMGT-Shady Grove Seniors majoring in Entrepreneurship Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.*	Seats (Total: 45) BLD2 3052

BMGT465 Business Plan For The New Venture

Credits: 3 Grading Method: Regular

Prerequisite: BMGT461 or BMGT361.

Each student focuses on the production of a business plan that will be accepted for an annual business plan competition. Business plans of sufficient quality may be submitted to attract financing. Topics include a deep review of business construction and its derivative short forms.

Registration is restricted to BMGT-Shady Grove Entrepreneurship majors with 86 credits. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.

SG91	Oliver Schlake TuTh 11:00am - 12:15pm *Restricted to BMGT-Shady Grove Seniors majoring in Entrepreneurship. Other students may request enrollment on a space available basis. UMCP undergraduation BMGT students are not eligible to enroll at Shady Grove.*	Seats (Total: 45) BLD2 3052

BMGT466 Global Business Strategy

Credits: 3 Grading Method: Regular

Restriction: Must be in a major in BMGT-Robert H. Smith School of Business.

Focuses on the strategic challenges that directly result from and are associated with the globalization of industries and companies. Topics include drivers of industry globalization, difference between global and multi-domestic industry, global expansion strategies, sources of competitive advantage in a global context, and coordination of a company across a global network.

Restricted to International Business majors and Management majors with 72 credit hours completed.

0101	Mark Wellman	Seats (Total: 45)
	Th 4:00pm - 6:40pm	ESJ 1215

BMGT466F **Global Business Strategy**

Credits: 3 Grading Method: Regular

Restriction: Must be in a major in BMGT-Robert H. Smith School of Business.

Focuses on the strategic challenges that directly result from and are associated with the globalization of industries and companies. Topics include drivers of industry globalization, difference between global and multi-domestic industry, global expansion strategies, sources of competitive advantage in a global context, and coordination of a company across a global network.

Restricted to Global Fellows students only.

FP01	Mark Wellman	Seats (Total: 65)
	Th 7:00pm - 9:40pm	ESJ 1215

BMGT467 **Strategic Innovation and Entrepreneurship**

Credits: 3 Grading Method: Regular

Credit only granted for: BMGT467, ENES463 or HLMN472.

Provides an understanding of how innovation affects the competitive dynamics of markets, how firms can strategically manage innovation, and how firms can create and implement strategies to maximize their likelihood of success.

Restricted to Innovation and Entrepreneurship Minors.

0101	Clarence Wesley	Seats (Total: 60)
	TuTh 2:00pm - 3:15pm	ESJ 2212

BMGT468E **Special Topics in Management and Organization; Smith Store 2.0: Rebuilding an Onsite and Online Retail Experience**

Credits: 3 Grading Method: Regular

Selected advanced topics in management and organization.

Restricted to BMGT majors with 30 credit hours completed.

0101	Oliver Schlake	Seats (Total: 30)
	M 5:00pm - 7:40pm	VMH 1206

BMGT468V **Special Topics in Management and Organization; Business Models and Methods to Affect Social Change**

Credits: 3 Grading Method: Regular

Selected advanced topics in management and organization.

FP01	David Kirsch	Seats (Total: 35)
	TuTh 2:00pm - 3:15pm	VMH 1511
	Restricted to students in the Social Innovation Fellows program.	

BMGT468Y **Special Topics in Management and Organization; Entrepreneurial Capitalism Around the World**

Credits: 3 Grading Method: Regular

Selected advanced topics in management and organization.

Restricted to students with 60 credit hours completed.

0101	Serguey Braguinsky	Seats (Total: 60)
	MW 5:00pm - 6:15pm	SQH 1119

BMGT468Z **Special Topics in Management and Organization; Create the Future through Systems Thinking and Design**

Credits: 3 Grading Method: Regular

Selected advanced topics in management and organization.

Restricted to students with 60 credit hours completed.

0101	Gerald Suarez	Seats (Total: 35)
	MW 11:00am - 12:15pm	ESJ 1215

BMGT471F **Seminar in Supply Chain Management: An Executive Perspective**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT372. Formerly: BMGT488L and BMGT498L.

Designed to provide students intensive interaction with senior supply chain executives from a cross-section of industries. Executives will share their insights about leading competitive supply chains in the global marketplace and assist students in understanding how to develop supply chain career strategies. Students will research the competitive supply chain dynamics of each executive's industry and review/analyze their findings with the executive.

Restricted to Supply Chain Management Fellows (FPLT).

FP01	Thomas Corsi W 6:30pm - 9:10pm	Seats (Total: 35) VMH 1412

BMGT472 **Purchasing and Inbound Logistics**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT372.

Analysis of the resupply activities of logistics management, including purchasing policies, transportation planning, and inventory control. Attention is directed toward total cost minimization and the establishment of a sustainable competitive advantage based on procurement.

Restricted to Supply Chain Management majors only.

0101	Hao Su MW 5:00pm - 6:15pm	Seats (Total: 35) VMH 1335

BMGT476 **Technology Applications in Supply Chain Management**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT372.

An understanding of the role of technology in managing the supply chain Provides students with hands-on experience in advanced software systems that build on top of enterprise resource planning systems. Major emphasis is placed on demonstrating that these systems result in supply chain cost reductions and service improvements.

Restricted to SCM and Information Systems majors.

0101	Hongyi Zhang TuTh 9:30am - 10:45am	Seats (Total: 24) VMH 3522
0201	Hongyi Zhang TuTh 11:00am - 12:15pm	Seats (Total: 24) VMH 3522

BMGT477 **International Supply Chain Management**

Credits: 3 Grading Method: Regular

The study of the importance of the supply chain management within a global context. Topics covered include: the structure, service, pricing and competitive relationships among international carriers and transport intermediaries as well as documentation, location decisions, international sourcing/distribution and management of inventory throughout the international supply chain.

Restricted to SCM majors and International Business majors.

0101	Martin Dresner MW 12:30pm - 1:45pm	Seats (Total: 40) VMH 1336
0201	Martin Dresner MW 2:00pm - 3:15pm	Seats (Total: 40) VMH 1336
0301	Koki Nagata MW 3:30pm - 4:45pm	Seats (Total: 40) VMH 1307

BMGT478C **Special Topics in Supply Chain Management; Supply Chain Risk Management**

Credits: 3 Grading Method: Regular

Selected advanced topics in supply chain management.

Restricted to Supply Chain Management majors.

0101	Leland Gardner MW 3:30pm - 4:45pm	Seats (Total: 35) VMH 1411

BMGT484 **Digital Marketing**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT350. Restriction: Must be in a major in BMGT-Robert H. Smith School of Business.

Examines the process of developing, implementing, and analyzing strategies for successfully marketing a variety of existing and potential products and services through digital means, including the web, social media, and mobile apps. Both the development and analysis of digital media for marketing will be discussed.

Restricted to BMGT majors with 60 credit hours completed.

0101	Jin-Hee Huh	Seats (Total: 40)
	TuTh 2:00pm - 3:15pm	VMH 3505
	Restricted to BMGT majors with 60 credit hours completed.	
0201	Jin-Hee Huh	Seats (Total: 40)
	TuTh 3:30pm - 4:45pm	VMH 3505
	Restricted to BMGT majors with 60 credit hours completed.	
SG91	Elie Ashery	Seats (Total: 40)
	TuTh 9:30am - 10:45am	BLD1 206
	Restricted to BMGT-Shady Grove Seniors. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.	

BMGT485 **Project Management**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT231 or BMGT230; or students who have taken courses with comparable content may contact the department. Restriction: Must be in a major in BMGT-Robert H. Smith School of Business.

Modern project management techniques that are used by modern practicing professionals will be covered. Particular attention is given to the management of technology based systems and projects in a business enterprise. The topics covered include: defining project scope, alignment of projects with enterprise strategy, managing project cost, time and risks using tools such as CPM/PERT, and measuring project performance.

Restricted to BMGT and QUEST students with 72 credits completed.

0101	Hassan Ibrahim	Seats (Total: 50)
	MW 3:30pm - 4:45pm	VMH 1206

BMGT490H **Quest Consulting and Innovation Practicum**

Credits: 4 Grading Method: Regular General Education: DSSP

Prerequisite: ENES390 or BMGT390. Also offered as: ENES490. Credit only granted for: BMGT490 or ENES490.

Final course in the QUEST Honors Fellows Program three-course curriculum. Based on a team-based consulting project with one of QUEST's professional partners. A project advisor and professional champion supervise each student team. Requires extensive out-of-class work.

Restricted to Quest Program students.

0101	David Ashley, Christina Elson W 5:00pm - 7:40pm Contact instructor or department for details.	Seats (Total: 45) VMH 1415

BMGT491 **Defining Consulting and Innovation Projects**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: BMGT190 or ENES190. Restriction: Restricted to QUEST Program (TQMP) students. Also offered as: ENES491. Credit only granted for: BMGT491, ENES491 or BMGT438D. Formerly: BMGT438D.

Cultivate relationships with new and current corporate partners and prepare project scopes for QUEST's capstone course, BMGT/ENES 490H. Requires independent work communicating with clients and class visits to a variety of potential project sites.

Prerequiste: BMGT190H or ENES190H. Restricted to Quest. Also offered as ENES491.

0101	Jessica Roffe F 10:00am - 12:40pm	Seats (Total: 9) VMH 1407

BMGT493H **Honors Study**

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Permission of BMGT-Robert H. Smith School of Business.

First semester of the senior year. The course is designed for honors students who have elected to conduct intensive study (independent or group). The student will work under the direct guidance of a faculty advisor and the Assistant Dean of Undergraduate Studies. They shall determine that the area of study is of a scope and intensity deserving of a candidate's attention. Formal written and/or oral reports on the study may be required by the faculty advisor.

Restricted to BMGT Honors students.

0101	Charles Olson Th 3:30pm - 6:10pm	Seats (Total: 35) VMH 1511

BMGT495 **Strategic Management**

Credits: 3 Grading Method: Regular CORE: CS General Education: DSSP

A case-based course where students learn to play the role of the "strategic manager" who defines the scope of its business operations and, within the chosen scope, how the firm will compete against rivals. This course focuses on how a firm can both formulate effective business-level and corporate-level strategies to achieve competitive advantage and earn above average profits.

Restricted to BMGT students with 60 credit hours completed.

0101	Protiti Dastidar MW 9:30am - 10:45am	Seats (Total: 48) VMH 1202
0201	Protiti Dastidar MW 11:00am - 12:15pm	Seats (Total: 48) VMH 1202
0301	Protiti Dastidar MW 12:30pm - 1:45pm	Seats (Total: 48) VMH 1202
0401	David Waguespack MW 2:00pm - 3:15pm	Seats (Total: 48) VMH 1202
0501	David Waguespack MW 3:30pm - 4:45pm	Seats (Total: 48) VMH 1202
0601	David Waguespack MW 5:00pm - 6:15pm	Seats (Total: 48) VMH 1202
0701	Aswani Valiveti TuTh 9:30am - 10:45am	Seats (Total: 48) VMH 1202
0801	Clarence Wesley TuTh 11:00am - 12:15pm	Seats (Total: 48) VMH 1202
0901	Clarence Wesley TuTh 12:30pm - 1:45pm	Seats (Total: 48) VMH 1202
1001	David Kressler TuTh 2:00pm - 3:15pm	Seats (Total: 48) VMH 1202
1101	David Kressler TuTh 3:30pm - 4:45pm	Seats (Total: 48) VMH 1202
1201	Paulo Prochno MW 12:30pm - 1:45pm	Seats (Total: 40) VMH 1311

BMGT496 **Business Ethics and Society**

Credits: 3 Grading Method: Regular

Prerequisite: 1 course in BMGT; or permission of BMGT-Robert H. Smith School of Business.

A study of the standards of business conduct, morals and values as well as the role of business in society with consideration of the sometimes conflicting interests of and claims on the firm and its objectives. Emphasizes a strategic approach by business to the management of its external environment.

Restricted to BMGT-Shady Grove Seniors majoring in Entrepreneurship. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.

SG91	Jennifer Gershberg TuTh 9:30am - 10:45am	Seats (Total: 45) BLD2 3052

BMGT498L **Special Topics in Business and Management; Innovating the Higher Education Business Model**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics in business and management designed to meet the changing needs and interests of students and faculty.

Innovo Scholars is a new program offering an elite group of students the opportunity to participate in the innovation of teaching and learning at Smith. In addition to completing normal teaching assistant activities, the Scholars will be responsible for designing and implementing improvements to an existing Smith course or program.

0101	Jonathan Southgate Th 5:00pm - 6:50pm Contact instructor or department for details.	Seats (Total: 10) SQH 4111
0102	Jonathan Southgate Th 5:00pm - 6:50pm Contact instructor or department for details.	Seats (Total: 10) SQH 4111

BMGT499G **Advanced Business Topics; Maryland Social Entrepreneur Corps II**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Course will delve deeply into a specific business topic. Based on experience and knowledge from undergraduate core business classes, students will examine a particular subject from various angles.

Also offered as AMST499D. Credit granted for BMGT499G or AMST499D. Restricted to students participating in the Maryland Social Entrepreneur Corps program. Participating students will be automatically enrolled in the course by Education Abroad. For more information about the program, please contact Jennifer Precht in Education Abroad (jprecht@umd.edu).

Contact department for information to register for this course.

BMGT808O **Special Topics in Information Systems; Research Methods in Information Systems**

Credits: 2 Grading Method: Regular, Audit

Special topics specific to the Information Systems doctoral field of study.

0101	Henry Lucas **Meets August 27, 2018 - October 12, 2018** Contact instructor or department for details.	Seats (Total: 12)

BMGT808Q **Special Topics in Information Systems; Data Science Research Seminar**

Credits: 2 Grading Method: Regular, Audit

Special topics specific to the Information Systems doctoral field of study.

0101	Kunpeng Zhang, Jessica Clark **Meets October 22, 2018 - December 11, 2018** Contact instructor or department for details.	Seats (Total: 12)

BMGT808R **Special Topics in Information Systems; Research Seminar in Decision, Operations and Information Technologies**

Credits: 1 Grading Method: Regular, Audit

Special topics specific to the Information Systems doctoral field of study.

0101	Sivakumar Viswanathan Contact instructor or department for details.	Seats (Total: 12)

BMGT818N **Special Topics in Accounting and Information Assurance; Workshop in Accounting Research**

Credits: 1 Grading Method: Regular, Audit

Special topics specific to the Accounting and Information Assurance doctoral field of study.

0101	Lawrence Gordon	Seats (Total: 10)
	F 10:00am - 10:50am	VMH 4335

BMGT828 **Independent Study in Business and Management**

Credits: 1-9 Grading Method: Regular

Contact department for information to register for this course.

BMGT835 **Simulation of Discrete-Event Systems**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Knowledge of Fortran, Basic, C, or Pascal.

Simulation modeling and analysis of stochastic discrete-event systems such as manufacturing systems, inventory control systems, and computer/ communications networks.

0101	Michael Fu	Seats (Total: 15)
	Th 12:30pm - 3:10pm	VMH 3330H

BMGT838R **Special Topics in Operations Management/Management Science; Research Seminar in Decision, Operations and Information Technologies**

Credits: 1 Grading Method: Regular, Audit

Special topics specific to the Operations Management/Management Science doctoral field of study.

0101	Zhi-Long Chen	Seats (Total: 12)
	Contact instructor or department for details.	

BMGT840 **Seminar in Financial Theory**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of BMGT-Robert H. Smith School of Business.

Seminar in selected classic and current theoretical and empirical research in the foundations of finance.

0101	Albert Kyle	Seats (Total: 12)
	TuTh 9:00am - 10:45am	VMH 3332

BMGT848A **Special Topics in Finance; Financial Research Methods**

Credits: 1 Grading Method: Regular, Audit

Special topics specific to the Finance doctoral field of study.

0101	Vojislav Maksimovic	Seats (Total: 12)
	Meets August 27, 2018 - October 13, 2018	
	F 2:00pm - 5:00pm	VMH 4534

BMGT848F **Special Topics in Finance; Workshop in Finance Research**

Credits: 1 Grading Method: Regular, Audit

Special topics specific to the Finance doctoral field of study.

0101	Nagpurnanand Prabhala	Seats (Total: 12)
	F 9:00am - 12:00pm	VMH 1333

BMGT858A **Special Topics in Marketing; Consumer Goals and Motivation**

Credits: 2 Grading Method: Regular, Audit

Special topics specific to the Marketing doctoral field of study.

0101	Yajin Wang	Seats (Total: 12)
	Meets August 27, 2018 - October 12, 2018	
	Tu 5:00pm - 8:35pm	VMH 3330H

BMGT858N **Special Topics in Marketing; Current Topics in Consumer Behavior Research**

Credits: 2 Grading Method: Regular, Audit

Special topics specific to the Marketing doctoral field of study.

0101	Yajin Wang	Seats (Total: 12)
	Meets October 22, 2018 - December 10, 2018	
	Tu 5:00pm - 8:35pm	VMH 4534

BMGT858R **Special Topics in Marketing; Marketing Research Seminar**

Credits: 1 Grading Method: Regular, Audit

Special topics specific to the Marketing doctoral field of study.

Course restricted to Marketing PhD students only

0101	Bruno Jacobs	Seats (Total: 16)
	F 10:00am - 12:30pm	VMH 1330

BMGT858W **Special Topics in Marketing; Marketing Models with MCMC**

Credits: 3 Grading Method: Regular, Audit

Special topics specific to the Marketing doctoral field of study.

0101	Michel Wedel	Seats (Total: 12)
	W 2:00pm - 4:40pm	VMH 2509

BMGT868C **Special Topics in Organizational Behavior/Human Resource Management**

Credits: 1 Grading Method: Regular, Audit

Special topics specific to the Organizational Behavior/Human Resource Management doctoral field of study.

0101	Rellie Rozin	Seats (Total: 20)
	F 12:30pm - 2:00pm	VMH 2509

BMGT868O **Special Topics in Organizational Behavior/Human Resource Management; Organizational Behavior Foundations**

Credits: 2 Grading Method: Regular, Audit

Special topics specific to the Organizational Behavior/Human Resource Management doctoral field of study.

0101	Subrahmaniam Tangirala	Seats (Total: 12)
	Meets October 22, 2018 - November 26, 2018	
	M 10:00am - 2:10pm	VMH 4534

BMGT868P **Special Topics in Organizational Behavior/Human Resource Management; Organizational Behavior and Human Resource Management Presentations**

Credits: 1 Grading Method: Regular, Audit

Special topics specific to the Organizational Behavior/Human Resource Management doctoral field of study.

0101	Vijaya Venkataramani	Seats (Total: 10)
	W 11:00am - 12:30pm	VMH 2509

BMGT868R **Special Topics in Organizational Behavior/Human Resource Management; Organizational Behavior and Human Resource Research Methods Foundation**

Credits: 2 Grading Method: Regular, Audit

Special topics specific to the Organizational Behavior/Human Resource Management doctoral field of study.

Restricted to OBHR and SM&E majors.

0101	Gilad Chen	Seats (Total: 12)
	Meets August 16, 2018 - September 25, 2018	
	Contact instructor or department for details.	

BMGT868T **Special Topics in Organizational Behavior/Human Resource Management; Seminar on Teams**

Credits: 2 Grading Method: Regular, Audit

Special topics specific to the Organizational Behavior/Human Resource Management doctoral field of study.

0101	Kathryn Bartol	Seats (Total: 12)
	Meets August 27, 2018 - October 15, 2018	
	M 9:00am - 12:35pm	VMH 4534

BMGT878C **Special Topics in Strategic Management and Entrepreneurship; Cross Disciplinary Workshop**

Credits: 1 Grading Method: Regular, Audit

Special topics specific to the Strategic Management and Entrepreneurship doctoral field of study.

0101	Cristian Dezso, Waverly Ding, Evan Starr, Ryan Cooper Th 11:00am - 12:30pm	Seats (Total: 12) VMH 3330H

BMGT878M **Special Topics in Strategic Management and Entrepreneurship; Formal Models of Innovation and Entrepreneurship**

Credits: 2 Grading Method: Regular, Audit

Special topics specific to the Strategic Management and Entrepreneurship doctoral field of study.

0101	Serguey Braguinsky **Meets August 27, 2018 - October 13, 2018** Tu 1:00pm - 4:35pm	Seats (Total: 12) VMH 4534

BMGT878P **Special Topics in Strategic Management and Entrepreneurship; Strategy and Entrepreneurship PhD Presentations**

Credits: 1 Grading Method: Regular, Audit

Special topics specific to the Strategic Management and Entrepreneurship doctoral field of study.

0101	Rajshree Tronetti Th 9:15am - 10:45am	Seats (Total: 12) VMH 3330H

BMGT878R **Special Topics in Strategic Management and Entrepreneurship; Straegy and Entrepreneurship Research Methods Foundation**

Credits: 2 Grading Method: Regular, Audit

Special topics specific to the Strategic Management and Entrepreneurship doctoral field of study.

0101	David Waguespack **Meets October 22, 2018 - December 10, 2018** Tu 9:00am - 12:35pm	Seats (Total: 12) VMH 4534

BMGT888M **Special Topics in Supply Chain Management; Economics of International Business**

Credits: 2 Grading Method: Regular

Special topics specific to the Supply Chain Management doctoral field of study.

0101	Wilbur Chung	Seats (Total: 12)
	Meets October 22, 2018 - December 10, 2018	
	M 1:00pm - 4:10pm	VMH 4335

BMGT888T **Special Topics in Supply Chain Management; Transportation Economics**

Credits: 3 Grading Method: Regular

Special topics specific to the Supply Chain Management doctoral field of study.

0101	Robert Windle	Seats (Total: 12)
	F 2:30pm - 5:15pm	VMH 3330H

BMGT888W **Special Topics in Supply Chain Management; Workshop in Supply Chain Management**

Credits: 1 Grading Method: Regular

Special topics specific to the Supply Chain Management doctoral field of study.

0101	Martin Dresner	Seats (Total: 12)
	F 1:00pm - 2:30pm	VMH 3332

BMGT898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

BMGT899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

BSCI Biological Sciences Program Fall 2018

BSCI126 **Pollinators in Crisis**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: LS General Education: DSNS, SCIS

We will dissect the pollinator crisis, and in the process learn about insects, about the interaction of organisms in complex ecosystems, and about the human-nature interface. Students will work in groups that specialize in an aspect of pollinator biology and their challenges. Instruction will target methods for collecting information, interpretation of scientific information and the professional presentation of findings.

(Sponsoring Dept.: ENTM). Not acceptable for credit for any Biological Sciences major.

0101	David Hawthorne TuTh 2:00pm - 3:15pm Tu 4:00pm - 4:50pm	Seats (Total: 20) PLS 1140 PLS 1161	 Discussion
0102	David Hawthorne TuTh 2:00pm - 3:15pm Tu 5:00pm - 5:50pm	Seats (Total: 20) PLS 1140 PLS 1161	 Discussion
0103	David Hawthorne TuTh 2:00pm - 3:15pm Th 4:00pm - 4:50pm	Seats (Total: 20) PLS 1140 PLS 1162	 Discussion
0104	David Hawthorne TuTh 2:00pm - 3:15pm Th 5:00pm - 5:50pm	Seats (Total: 20) PLS 1140 PLS 1162	 Discussion

BSCI135 **Amazing Green: Plants that Transformed the World**

Credits: 4	Grading Method: Regular, Pass-Fail, Audit	CORE: LL	General Education: DSNL, SCIS

An interactive way to learn about plants and science, focusing on how plants have changed human history, the biology of their growth, and the science behind their use.

(Sponsoring Dept.: CBMG). Students must pay a $40.00 laboratory materials fee. Not acceptable for credit for any Biological Sciences major.

0101	Edgar Moctezuma TuTh 9:30am - 10:45am M 12:30pm - 2:30pm	Seats (Total: 24) HJP 0226 HJP 3237	 Lab
0102	Edgar Moctezuma TuTh 9:30am - 10:45am Tu 12:00pm - 2:00pm	Seats (Total: 24) HJP 0226 HJP 3237	 Lab

0103	Edgar Moctezuma TuTh 9:30am - 10:45am W 12:30pm - 2:30pm	Seats (Total: 24) HJP 0226 HJP 3237	 Lab
0104	Edgar Moctezuma TuTh 9:30am - 10:45am Th 12:30pm - 2:30pm	Seats (Total: 24) HJP 0226 HJP 3237	 Lab
0105	Edgar Moctezuma TuTh 9:30am - 10:45am Tu 3:00pm - 4:50pm	Seats (Total: 24) HJP 0226 HJP 3237	 Lab
0106	Edgar Moctezuma TuTh 9:30am - 10:45am W 10:00am - 11:50am	Seats (Total: 24) HJP 0226 HJP 3237	 Lab

BSCI160 **Principles of Ecology and Evolution**

Credits: 3 Grading Method: Regular General Education: DSNL (if taken with BSCI161), DSNS

Prerequisite: Must have math eligibility of MATH120 or higher. Recommended: For Science majors. Credit only granted for: BSCI106 or BSCI160. Formerly: BSCI106.

Basic principles of biology with special emphasis on ecological and evolutionary biology.

(Sponsoring Dept.: BSCI).

6101	Marcia Shofner TuTh 9:30am - 10:45am	Seats (Total: 142) JMZ 0220	
6201	Marcia Shofner TuTh 12:30pm - 1:45pm	Seats (Total: 142) ESJ 1224	
6301	Leo Shapiro TuTh 2:00pm - 3:15pm	Seats (Total: 142) HJP 0226	
6401	Danielle Adams MWF 11:00am - 11:50am	Seats (Total: 135) BPS 1250	

BSCI161 **Principles of Ecology and Evolution Lab**

Credits: 1 Grading Method: Regular

Prerequisite: Must have math eligibility of MATH120 or higher. Corequisite: BSCI160. Recommended: For Science majors.

Basic laboratory principles of biology with special emphasis on ecological and evolutionary biology.

(Sponsoring Dept.: BSCI). Students must pay a $40.00 laboratory materials fee.

6104	Leo Shapiro M 11:00am - 1:50pm	Seats (Total: 24) HJP 3211	Lab
6105	Leo Shapiro M 11:00am - 1:50pm	Seats (Total: 24) HJP 3217	Lab
6110	Leo Shapiro M 5:00pm - 7:50pm	Seats (Total: 24) HJP 3211	Lab
6111	Leo Shapiro M 5:00pm - 7:50pm	Seats (Total: 24) HJP 3217	Lab
6201	Leo Shapiro Tu 8:00am - 10:50am	Seats (Total: 23) HJP 3211	Lab
6204	Leo Shapiro Tu 11:00am - 1:50pm	Seats (Total: 24) HJP 3211	Lab
6211	Leo Shapiro Tu 5:00pm - 7:50pm	Seats (Total: 24) HJP 3217	Lab
6304	Leo Shapiro W 11:00am - 1:50pm	Seats (Total: 24) HJP 3211	Lab
6307	Leo Shapiro W 2:00pm - 4:50pm *This section is restricted to BioFire students.*	Seats (Total: 24) HJP 3211	Lab
6401	Leo Shapiro Th 8:00am - 10:50am	Seats (Total: 24) HJP 3211	Lab
6405	Leo Shapiro Th 11:00am - 1:50pm	Seats (Total: 24) HJP 3217	Lab

6408	Leo Shapiro Th 2:00pm - 4:50pm	Seats (Total: 24) HJP 3217	Lab
6410	Leo Shapiro Th 5:00pm - 7:50pm	Seats (Total: 24) HJP 3211	Lab

BSCI161C **Principles of Ecology and Evolution Lab**

Credits: 1 Grading Method: Regular

Prerequisite: Must have math eligibility of MATH120 or higher. Corequisite: BSCI160. Recommended: For Science majors.

Basic laboratory principles of biology with special emphasis on ecological and evolutionary biology.

Restricted to new freshmen and new transfer students in Biological Science. (Sponsoring Dept.: BSCI). Students must pay a $40.00 laboratory materials fee.

6108	Leo Shapiro M 2:00pm - 4:50pm	Seats (Total: 24) HJP 3217	Lab
6207	Leo Shapiro Tu 2:00pm - 4:50pm *Restricted to BioFire students.*	Seats (Total: 24) HJP 3211	Lab
6210	Leo Shapiro Tu 5:00pm - 7:50pm	Seats (Total: 24) HJP 3211	Lab
6308	Leo Shapiro W 2:00pm - 4:50pm	Seats (Total: 24) HJP 3217	Lab
6311	Leo Shapiro W 5:00pm - 7:50pm	Seats (Total: 24) HJP 3217	Lab
6404	Leo Shapiro Th 11:00am - 1:50pm	Seats (Total: 24) HJP 3211	Lab
6407	Leo Shapiro Th 2:00pm - 4:50pm	Seats (Total: 24) HJP 3211	Lab

BSCI161S **Principles of Ecology and Evolution Lab**

Credits: 1 Grading Method: Regular

Prerequisite: Must have math eligibility of MATH120 or higher. Corequisite: BSCI160. Recommended: For Science majors.

Basic laboratory principles of biology with special emphasis on ecological and evolutionary biology.

Restricted to College Park Scholars - Life Sciences. (Sponsoring Dept.: BSCI). Students must pay a $40 laboratory materials fee.

6107	Leo Shapiro M 2:00pm - 4:50pm	Seats (Total: 24) HJP 3211	Lab
6208	Leo Shapiro Tu 2:00pm - 4:50pm	Seats (Total: 24) HJP 3217	Lab
6411	Leo Shapiro Th 5:00pm - 7:50pm	Seats (Total: 24) HJP 3217	Lab

BSCI170 **Principles of Molecular & Cellular Biology**

Credits: 3 Grading Method: Regular General Education: DSNL (if taken with BSCI171), DSNS

Prerequisite: Must have math eligibility of MATH120 or higher. Recommended: For Science majors. Credit only granted for: BSCI105 or BSCI170. Formerly: BSCI105.

Basic principles of biology with special emphasis on cellular and molecular biology.

(Sponsoring Dept.: BSCI).

0101	Patricia Shields MWF 9:00am - 9:50am	Seats (Total: 155) ESJ 2208	
0201	Michael Keller MWF 11:00am - 11:50am	Seats (Total: 145) ESJ 2204	
0301	Michael Keller MWF 12:00pm - 12:50pm	Seats (Total: 145) ESJ 1224	
0401	David Kirschtel TuTh 3:00pm - 4:15pm	Seats (Total: 175) MMH 1400	
FC01	Michael Keller MW 4:30pm - 5:45pm *Restricted to students in Freshmen Connection*	Seats (Total: 161) JMZ 0220	

SEF1	James Sniezek Tu 6:00pm - 8:50pm	Seats (Total: 50) PLS 1130	
	Restricted to students in the SIE Program. Click here for more information.		

BSCI171 **Principles of Molecular & Cellular Biology Laboratory**

Credits: 1 Grading Method: Regular

Prerequisite: Must have math eligibility of MATH120 or higher. Corequisite: BSCI170. Recommended: For Science majors.

Basic laboratory principles of biology with special emphasis on cellular and molecular biology.

(Sponsoring Dept.: BSCI). Students must pay a $40.00 laboratory materials fee.

1021	David Kirschtel M 11:00am - 1:50pm	Seats (Total: 24) HJP 1226	Lab
1022	David Kirschtel M 11:00am - 1:50pm	Seats (Total: 24) HJP 1235	Lab
1031	David Kirschtel M 2:00pm - 4:50pm	Seats (Total: 24) HJP 1226	Lab
1032	David Kirschtel M 2:00pm - 4:50pm	Seats (Total: 24) HJP 1235	Lab
1033	David Kirschtel M 2:00pm - 4:50pm	Seats (Total: 24) HJP 1236	Lab
2021	David Kirschtel Tu 11:00am - 1:50pm	Seats (Total: 24) HJP 1226	Lab
2022	David Kirschtel Tu 11:00am - 1:50pm	Seats (Total: 24) HJP 1235	Lab
2023	David Kirschtel Tu 11:00am - 1:50pm	Seats (Total: 24) HJP 1236	Lab
2031	David Kirschtel Tu 2:00pm - 4:50pm	Seats (Total: 24) HJP 1226	Lab

2032	David Kirschtel Tu 2:00pm - 4:50pm	Seats (Total: 24) HJP 1235	Lab
2033	David Kirschtel Tu 2:00pm - 4:50pm	Seats (Total: 24) HJP 1236	Lab
3021	David Kirschtel W 11:00am - 1:50pm	Seats (Total: 24) HJP 1226	Lab
3022	David Kirschtel W 11:00am - 1:50pm	Seats (Total: 24) HJP 1235	Lab
3031	David Kirschtel W 2:00pm - 4:50pm	Seats (Total: 24) HJP 1226	Lab
3032	David Kirschtel W 2:00pm - 4:50pm	Seats (Total: 24) HJP 1235	Lab
3033	David Kirschtel W 2:00pm - 4:50pm	Seats (Total: 24) HJP 1236	Lab
3041	David Kirschtel W 6:00pm - 8:50pm	Seats (Total: 24) HJP 1226	Lab
4021	David Kirschtel Th 11:00am - 1:50pm	Seats (Total: 24) HJP 1226	Lab
4022	David Kirschtel Th 11:00am - 1:50pm	Seats (Total: 24) HJP 1235	Lab
4023	David Kirschtel Th 11:00am - 1:50pm	Seats (Total: 24) HJP 1236	Lab
4031	David Kirschtel Th 2:00pm - 4:50pm	Seats (Total: 24) HJP 1226	Lab
4032	David Kirschtel Th 2:00pm - 4:50pm	Seats (Total: 24) HJP 1235	Lab
4033	David Kirschtel Th 2:00pm - 4:50pm	Seats (Total: 24) HJP 1236	Lab

4041	David Kirschtel Th 6:00pm - 8:50pm	Seats (Total: 24) HJP 1235	Lab
4043	David Kirschtel Th 6:00pm - 8:50pm	Seats (Total: 24) HJP 1236	Lab
FC2N	David Kirschtel M 6:00pm - 8:50pm *Restricted to students in Freshmen Connection.*	Seats (Total: 23) HJP 1235	Lab
FC2O	David Kirschtel M 6:00pm - 8:50pm *Restricted to students in Freshmen Connection.*	Seats (Total: 23) HJP 1236	Lab
FC2P	David Kirschtel M 6:00pm - 8:50pm *Restricted to students in Freshmen Connection*	Seats (Total: 23) Location: TBA	
FC4N	David Kirschtel W 6:00pm - 8:50pm *Restricted to students in Freshmen Connection.*	Seats (Total: 23) HJP 1235	Lab
FC5A	David Kirschtel F 8:00am - 10:50am *Restricted to students in Freshmen Connection.*	Seats (Total: 23) HJP 1226	Lab
FC5B	David Kirschtel F 8:00am - 10:50am *Restricted to students in Freshmen Connection.*	Seats (Total: 23) HJP 1235	Lab
FC5C	David Kirschtel F 8:00am - 10:50am *Restricted to students in Freshmen Connection.*	Seats (Total: 23) HJP 1236	Lab
SEF1	David Kirschtel Th 6:00pm - 8:50pm *Restricted to students in the SIE Program. Click here for more information.*	Seats (Total: 23) HJP 1226	Lab

SEF2	David Kirschtel Th 6:00pm - 8:50pm	Seats (Total: 24) HJP 1229	Lab
	Restricted to students in the SIE Program. Click here for more information.		

BSCI189I **Beyond Race: Human Biological Diversity**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | CORE: LL, D | General Education: DSNL, DSSP, DVUP, SCIS

(Sponsoring Dept.: BSCI). Students must pay a $40.00 laboratory materials fee. Not acceptable for credit for any Biological Sciences major.

1003	Joelle Presson MWF 11:00am - 11:50am Tu 9:30am - 12:20pm	Seats (Total: 24) JMZ 0220 HJP 3239	Lab
1005	Joelle Presson MWF 11:00am - 11:50am Tu 1:00pm - 3:50pm	Seats (Total: 24) JMZ 0220 HJP 3239	Lab
1007	Joelle Presson MWF 11:00am - 11:50am W 12:00pm - 2:50pm	Seats (Total: 24) JMZ 0220 HJP 3239	Lab
1009	Joelle Presson MWF 11:00am - 11:50am W 3:00pm - 5:50pm	Seats (Total: 24) JMZ 0220 HJP 3239	Lab
1011	Joelle Presson MWF 11:00am - 11:50am Th 9:30am - 12:20pm	Seats (Total: 24) JMZ 0220 HJP 3239	Lab
1013	Joelle Presson MWF 11:00am - 11:50am Th 1:00pm - 3:50pm	Seats (Total: 24) JMZ 0220 HJP 3239	Lab

BSCI201 **Human Anatomy and Physiology I**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | CORE: LL | General Education: DSNL

Prerequisite: BSCI170 and BSCI171; or BSCI105; or students who have taken courses with comparable content may contact the department.

Anatomy and physiology of the skeletal, muscular, neural, endocrine, an sensory systems. Course not acceptable toward major requirements in Biological Sciences, Chemistry or Biochemistry.

(Sponsoring Dept.: BIOL). Students must pay a $40.00 laboratory materials fee.

0101	Caitlin Fox, Justicia Opoku-Edusei MWF 12:00pm - 12:50pm M 9:00am - 11:50am	Seats (Total: 24) BRB 1101 BPS 0205	 Lab
0102	Caitlin Fox, Justicia Opoku-Edusei MWF 12:00pm - 12:50pm M 4:00pm - 6:50pm	Seats (Total: 24) BRB 1101 BPS 0205	 Lab
0103	Caitlin Fox, Justicia Opoku-Edusei MWF 12:00pm - 12:50pm Tu 8:00am - 10:50am	Seats (Total: 24) BRB 1101 BPS 0205	 Lab
0105	Caitlin Fox, Justicia Opoku-Edusei MWF 12:00pm - 12:50pm Tu 6:00pm - 8:50pm	Seats (Total: 24) BRB 1101 BPS 0205	 Lab
0106	Justicia Opoku-Edusei, Caitlin Fox MWF 12:00pm - 12:50pm W 4:00pm - 6:50pm	Seats (Total: 24) BRB 1101 BPS 0205	 Lab
0107	Justicia Opoku-Edusei, Caitlin Fox MWF 12:00pm - 12:50pm W 7:00pm - 9:50pm	Seats (Total: 24) BRB 1101 BPS 0205	 Lab
0108	Justicia Opoku-Edusei, Caitlin Fox MWF 12:00pm - 12:50pm Th 11:00am - 1:50pm	Seats (Total: 24) BRB 1101 BPS 0205	 Lab
0109	Caitlin Fox, Justicia Opoku-Edusei MWF 12:00pm - 12:50pm M 9:00am - 11:50am	Seats (Total: 24) BRB 1101 BPS 0275	 Lab
0110	Caitlin Fox, Justicia Opoku-Edusei MWF 12:00pm - 12:50pm M 4:00pm - 6:50pm	Seats (Total: 24) BRB 1101 BPS 0275	 Lab

0111	Justicia Opoku-Edusei, Caitlin Fox MWF 12:00pm - 12:50pm Tu 11:00am - 1:50pm	Seats (Total: 24) BRB 1101 BPS 0275	 Lab
0112	Justicia Opoku-Edusei, Caitlin Fox MWF 12:00pm - 12:50pm Tu 5:00pm - 7:50pm	Seats (Total: 24) BRB 1101 BPS 0275	 Lab
1101	Caitlin Fox, Sara Lombardi TuTh 12:30pm - 1:45pm M 1:00pm - 3:50pm	Seats (Total: 24) ESJ 0224 BPS 0205	 Lab
1102	Sara Lombardi, Caitlin Fox TuTh 12:30pm - 1:45pm M 7:00pm - 9:50pm	Seats (Total: 24) ESJ 0224 BPS 0205	 Lab
1103	Sara Lombardi, Caitlin Fox TuTh 12:30pm - 1:45pm Tu 2:00pm - 4:50pm	Seats (Total: 24) ESJ 0224 BPS 0205	 Lab
1104	Sara Lombardi, Caitlin Fox TuTh 12:30pm - 1:45pm W 9:00am - 11:50am	Seats (Total: 24) ESJ 0224 BPS 0205	 Lab
1105	Sara Lombardi, Caitlin Fox TuTh 12:30pm - 1:45pm W 1:00pm - 3:50pm	Seats (Total: 24) ESJ 0224 BPS 0205	 Lab
1106	Caitlin Fox, Sara Lombardi TuTh 12:30pm - 1:45pm Th 8:00am - 10:50am	Seats (Total: 24) ESJ 0224 BPS 0205	 Lab
1107	Sara Lombardi, Caitlin Fox TuTh 12:30pm - 1:45pm Th 2:00pm - 4:50pm	Seats (Total: 24) ESJ 0224 BPS 0205	 Lab
1108	Caitlin Fox, Sara Lombardi TuTh 12:30pm - 1:45pm Th 6:00pm - 8:50pm	Seats (Total: 24) ESJ 0224 BPS 0205	 Lab

1109	Caitlin Fox, Sara Lombardi TuTh 12:30pm - 1:45pm M 1:00pm - 3:50pm	Seats (Total: 24) ESJ 0224 BPS 0275	 Lab
1110	Sara Lombardi, Caitlin Fox TuTh 12:30pm - 1:45pm Tu 2:00pm - 4:50pm	Seats (Total: 24) ESJ 0224 BPS 0275	 Lab

BSCI202 **Human Anatomy and Physiology II**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI201; or permission of CMNS-Biology department.

Anatomy and physiology of the cardiovascular, respiratory, immune, digestive, urinary and reproductive systems. Course not acceptable toward major requirements in Biological Sciences, Chemistry or Biochemistry.

(Sponsoring Dept.: BIOL). Students must pay a $40.00 laboratory materials fee.

0101	Tammatha O'Brien, Caitlin Fox TuTh 8:00am - 9:15am M 11:00am - 1:50pm	Seats (Total: 24) ESJ 0202 BPS 0201	 Lab
0102	Tammatha O'Brien, Caitlin Fox TuTh 8:00am - 9:15am Tu 9:30am - 12:20pm	Seats (Total: 24) ESJ 0202 BPS 0201	 Lab
0106	Caitlin Fox, Tammatha O'Brien TuTh 8:00am - 9:15am Tu 7:00pm - 9:50pm	Seats (Total: 24) ESJ 0202 BPS 0201	 Lab
0109	Tammatha O'Brien, Caitlin Fox TuTh 8:00am - 9:15am W 2:00pm - 4:50pm	Seats (Total: 24) ESJ 0202 BPS 0201	 Lab
0110	Caitlin Fox, Tammatha O'Brien TuTh 8:00am - 9:15am W 5:00pm - 7:50pm	Seats (Total: 24) ESJ 0202 BPS 0201	 Lab

0112	Caitlin Fox, Tammatha O'Brien TuTh 8:00am - 9:15am Th 11:00am - 1:50pm	Seats (Total: 24) ESJ 0202 BPS 0201	 Lab
0113	Tammatha O'Brien, Caitlin Fox TuTh 8:00am - 9:15am Th 9:30am - 12:20pm	Seats (Total: 24) ESJ 0202 BPS 0275	 Lab
1102	Caitlin Fox, Sara Lombardi TuTh 9:30am - 10:45am M 5:00pm - 7:50pm	Seats (Total: 24) BRB 1101 BPS 0201	 Lab
1103	Sara Lombardi, Caitlin Fox TuTh 9:30am - 10:45am Tu 4:00pm - 6:50pm	Seats (Total: 24) BRB 1101 BPS 0201	 Lab
1104	Caitlin Fox, Sara Lombardi TuTh 9:30am - 10:45am W 8:00am - 10:50am	Seats (Total: 24) BRB 1101 BPS 0201	 Lab
1105	Caitlin Fox, Sara Lombardi TuTh 9:30am - 10:45am W 11:00am - 1:50pm	Seats (Total: 24) BRB 1101 BPS 0201	 Lab
1106	Sara Lombardi, Caitlin Fox TuTh 9:30am - 10:45am Th 2:00pm - 4:50pm	Seats (Total: 24) BRB 1101 BPS 0201	 Lab
1107	Caitlin Fox, Sara Lombardi TuTh 9:30am - 10:45am Th 1:00pm - 3:50pm	Seats (Total: 24) BRB 1101 BPS 0275	 Lab
1108	Caitlin Fox, Sara Lombardi TuTh 9:30am - 10:45am Th 5:00pm - 7:50pm	Seats (Total: 24) BRB 1101 BPS 0275	 Lab
1109	Caitlin Fox, Sara Lombardi TuTh 9:30am - 10:45am F 8:00am - 10:50am	Seats (Total: 24) BRB 1101 BPS 0201	 Lab

SEF1	Caitlin Fox, Justicia Opoku-Edusei Tu 6:00pm - 8:50pm Th 6:00pm - 8:50pm	Seats (Total: 24) PLS 1119 BPS 0201	 Lab
	Restricted to students in the SIE Program. Click here for more information.		

BSCI207 **Principles of Biology III - Organismal Biology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI160 and BSCI161; or BSCI106. And BSCI170 and BSCI171; or BSCI105. And must have completed or be concurrently enrolled in CHEM131.

The diversity, structure and function of organisms as understood from the perspective of their common physicochemical principles and unique evolutionary histories.

(Sponsoring Dept.: BSCI).

0101	Bretton Kent MWF 9:00am - 9:50am	Seats (Total: 180) HJP 0226	
0201	Karen Carleton, Eric Haag MWF 2:00pm - 2:50pm	Seats (Total: 150) ESJ 1224	
0301	Karen Carleton, Eric Haag MWF 3:00pm - 3:50pm	Seats (Total: 135) ESJ 1224	

BSCI222 **Principles of Genetics**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHEM131 and CHEM132; and (BSCI160 and BSCI161; or BSCI106); and (BSCI170 and BSCI171; or BSCI105). Or must have completed BSCI105 or (BSCI170 and BSCI171); and two semesters of chemistry.

Principles and mechanisms of heredity and gene expression. Considers plant, animal, and microbial organisms.

(Sponsoring Dept.: BSCI).

2121	Kimberly Paczolt MWF 1:00pm - 1:50pm M 10:00am - 11:50am	Seats (Total: 23) BRB 1101 HJP 3233	 Discussion

2122	Kimberly Paczolt MWF 1:00pm - 1:50pm M 5:00pm - 6:50pm	Seats (Total: 23) BRB 1101 HJP 3233	Discussion
2124	Kimberly Paczolt MWF 1:00pm - 1:50pm Tu 10:00am - 11:50am	Seats (Total: 23) BRB 1101 PLS 1121	Discussion
2125	Kimberly Paczolt MWF 1:00pm - 1:50pm Tu 12:00pm - 1:50pm	Seats (Total: 23) BRB 1101 HJP 3233	Discussion
2127	Kimberly Paczolt MWF 1:00pm - 1:50pm Tu 12:00pm - 1:50pm	Seats (Total: 23) BRB 1101 PLS 1121	Discussion
2130	Kimberly Paczolt MWF 1:00pm - 1:50pm W 3:00pm - 4:50pm	Seats (Total: 23) BRB 1101 HJP 3233	Discussion
2132	Kimberly Paczolt MWF 1:00pm - 1:50pm W 5:00pm - 6:50pm	Seats (Total: 23) BRB 1101 HJP 3233	Discussion
2137	Kimberly Paczolt MWF 1:00pm - 1:50pm Th 12:00pm - 1:50pm	Seats (Total: 23) BRB 1101 HJP 3233	Discussion
2140	Kimberly Paczolt MWF 1:00pm - 1:50pm W 5:00pm - 6:50pm	Seats (Total: 23) BRB 1101 PLS 1121	Discussion
2141	Kimberly Paczolt MWF 1:00pm - 1:50pm Th 2:00pm - 3:50pm	Seats (Total: 23) BRB 1101 PLS 1121	Discussion
2211	Thomas Kocher TuTh 11:00am - 12:15pm M 12:00pm - 1:50pm	Seats (Total: 23) HJP 0226 PLS 1162	Discussion

2215	Thomas Kocher TuTh 11:00am - 12:15pm Tu 2:00pm - 3:50pm	Seats (Total: 24) HJP 0226 HJP 3233	Discussion
2221	Thomas Kocher TuTh 11:00am - 12:15pm Tu 4:00pm - 5:50pm	Seats (Total: 24) HJP 0226 PLS 1117	Discussion
2231	Thomas Kocher TuTh 11:00am - 12:15pm Tu 6:00pm - 7:50pm	Seats (Total: 24) HJP 0226 PLS 1111	Discussion
2251	Thomas Kocher TuTh 11:00am - 12:15pm W 12:00pm - 1:50pm	Seats (Total: 23) HJP 0226 PLS 1158	Discussion
2264	Thomas Kocher TuTh 11:00am - 12:15pm Th 8:00am - 9:50am	Seats (Total: 24) HJP 0226 HBK 0105	Discussion
2265	Thomas Kocher TuTh 11:00am - 12:15pm Th 2:00pm - 3:50pm	Seats (Total: 24) HJP 0226 PLS 1119	Discussion
2267	Thomas Kocher TuTh 11:00am - 12:15pm Th 4:00pm - 5:50pm	Seats (Total: 23) HJP 0226 PLS 1172	Discussion
2271	Thomas Kocher TuTh 11:00am - 12:15pm Th 6:00pm - 7:50pm	Seats (Total: 24) HJP 0226 BPS 1234	Discussion

BSCI223 **General Microbiology**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | CORE: LL | General Education: DSNL, SCIS

Prerequisite: BSCI170 and BSCI171; or BSCI105.

Fundamental concepts in morphology, physiology, genetics, immunology, ecology, and pathogenic microbiology. Applications of microbiology to medicine, the food industry and biotechnology.

(Sponsoring Dept.: CBMG). Students must pay a $40.00 laboratory materials fee.

1101	John Buchner TuTh 11:00am - 11:50am MW 10:00am - 11:50am	Seats (Total: 20) BRB 1101 MCB 1201	Lab
1106	John Buchner TuTh 11:00am - 11:50am MW 10:00am - 11:50am	Seats (Total: 20) BRB 1101 MCB 1206	Lab
1121	John Buchner TuTh 11:00am - 11:50am TuTh 9:00am - 10:50am	Seats (Total: 20) BRB 1101 MCB 1201	Lab
1126	John Buchner TuTh 11:00am - 11:50am TuTh 9:00am - 10:50am	Seats (Total: 20) BRB 1101 MCB 1206	Lab
1201	John Buchner TuTh 11:00am - 11:50am MW 12:00pm - 1:50pm	Seats (Total: 20) BRB 1101 MCB 1201	Lab
1206	John Buchner TuTh 11:00am - 11:50am MW 12:00pm - 1:50pm	Seats (Total: 20) BRB 1101 MCB 1206	Lab
1221	John Buchner TuTh 11:00am - 11:50am TuTh 12:00pm - 1:50pm	Seats (Total: 20) BRB 1101 MCB 1201	Lab
1225	John Buchner TuTh 11:00am - 11:50am TuTh 12:00pm - 1:50pm	Seats (Total: 20) BRB 1101 MCB 1205	Lab
1301	John Buchner TuTh 11:00am - 11:50am MW 2:00pm - 3:50pm	Seats (Total: 20) BRB 1101 MCB 1201	Lab
1306	John Buchner TuTh 11:00am - 11:50am MW 2:00pm - 3:50pm	Seats (Total: 20) BRB 1101 MCB 1206	Lab

1321	John Buchner TuTh 11:00am - 11:50am TuTh 2:00pm - 3:50pm	Seats (Total: 20) BRB 1101 MCB 1201	 Lab
1325	John Buchner TuTh 11:00am - 11:50am TuTh 2:00pm - 3:50pm	Seats (Total: 20) BRB 1101 MCB 1205	 Lab
1326	John Buchner TuTh 11:00am - 11:50am TuTh 2:00pm - 3:50pm	Seats (Total: 20) BRB 1101 MCB 1206	 Lab
1405	John Buchner TuTh 11:00am - 11:50am MW 4:00pm - 5:50pm	Seats (Total: 20) BRB 1101 MCB 1206	 Lab
2105	John Buchner TuTh 11:00am - 11:50am MW 10:00am - 11:50am	Seats (Total: 20) BRB 1101 MCB 1205	 Lab
2125	John Buchner TuTh 11:00am - 11:50am TuTh 9:00am - 10:50am	Seats (Total: 20) BRB 1101 MCB 1205	 Lab
2226	John Buchner TuTh 11:00am - 11:50am TuTh 12:00pm - 1:50pm	Seats (Total: 20) BRB 1101 MCB 1206	 Lab
2401	John Buchner TuTh 11:00am - 11:50am MW 4:00pm - 5:50pm	Seats (Total: 20) BRB 1101 MCB 1201	 Lab
SEF1	John Buchner TuTh 6:00pm - 6:50pm TuTh 7:00pm - 9:00pm *Restricted to students in the SIE Program. Click here for more information.*	Seats (Total: 20) MCB 1207 MCB 1201	 Lab
SEF2	John Buchner TuTh 6:00pm - 6:50pm TuTh 7:00pm - 9:00pm *Restricted to students in the SIE Program.*	Seats (Total: 20) MCB 1207 MCB 1205	 Lab

BSCI279 **Supplemental Study; Supplemental Study in Biology**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Research or special study to complement a course taken previously which is not fully equivalent to current departmental requirements. Credit according to work done.

(Sponsoring Dept.: BSCI).

Contact department for information to register for this course.

BSCI279P **Supplemental Study; Undergraduate Teaching Fellows Professional Development Seminar**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Research or special study to complement a course taken previously which is not fully equivalent to current departmental requirements. Credit according to work done.

(Sponsoring Dept.: BSCI).

Contact department for information to register for this course.

BSCI279Q **Supplemental Study; Readings in Neurophysiology**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Research or special study to complement a course taken previously which is not fully equivalent to current departmental requirements. Credit according to work done.

(Sponsoring Dept.: BIOL).

0101	Daniel Butts, Patrick Kanold, Elizabeth Quinlan, Ricardo Araneda Contact instructor or department for details.	Seats (Total: 13)

BSCI279R **Supplemental Study; Undergraduate Research Rotation**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Research or special study to complement a course taken previously which is not fully equivalent to current departmental requirements. Credit according to work done.

(Sponsoring Dept.: CBMG).

Contact department for information to register for this course.

BSCI279T **Supplemental Study**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Research or special study to complement a course taken previously which is not fully equivalent to current departmental requirements. Credit according to work done.

(Sponsoring Dept.: BSCI).

Contact department for information to register for this course.

BSCI283 **Principles of Microbiology**

Credits: 4

Grading Method: Regular, Pass-Fail, Audit

General Education: DSNL, SCIS

Prerequisite: BSCI207 and BSCI222. Credit only granted for: BSCI223 or BSCI283. Additional information: Priority given to BSCI, BCHM and CHEM majors.

Introduction to microorganisms designed for science majors. Genetic principles underlying microbial abilities; microbial structure-function relationships; metabolism, physiology, and ecology of microorganisms; interactions between microorganisms (including pathogens) and their hosts.

(Sponsoring Dept.: CBMG).

1205	John Buchner, Wade Winkler MW 10:00am - 10:50am MW 12:00pm - 1:50pm	Seats (Total: 20) ESJ 1309 MCB 1205	 Lab
1305	John Buchner, Wade Winkler MW 10:00am - 10:50am MW 2:00pm - 3:50pm	Seats (Total: 20) ESJ 1309 MCB 1205	 Lab

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BSCI288 **Internship; Field Experience**

(Perm req)

Credits: 1-6

Grading Method: Regular, Pass-Fail, Audit

An individual experience arranged by the student with the instructor.

(Sponsoring Dept.: BSCI).

Contact department for information to register for this course.

BSCI288H **Internship**

(Perm req)

Credits: 1-6

Grading Method: Regular, Pass-Fail, Audit

An individual experience arranged by the student with the instructor.

Contact department for information to register for this course.

BSCI289 **Off-Campus Internship**

(Perm req)

Credits: 1-3 Grading Method: Sat-Fail

Elective credit for formally established off-campus research internship. Permission of Director of Outreach required.

(Sponsoring Dept.: BSCI). Provides credit for off-campus research internships. This credit counts as elective toward graduation, but does not satisfy any Biological Sciences degree requirements (For information about research credit that does count toward Biological Sciences contact the Biological Sciences Program, room 1322 Symons Hall). The off-campus internship credit requires that a contract form be filed with the Assistant Dean for Science Education Initiatives, Room 1313 Symons Hall, prior to the internship. The contract must be finalized and signed by the research supervisor at the end of the semester before credit will be awarded.

1110	Katerina Thompson Contact instructor or department for details.	Seats (Total: 20)
1111	Katerina Thompson Contact instructor or department for details.	Seats (Total: 40)

BSCI300 **Strategies for Success**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in a major in USG-Universities at Shady Grove; and must be in Biological Sciences: Physiology & Neurobiology program. Credit only granted for: BSCI300, BSCI339R. Formerly: BSCI339R.

Students often face an increased emphasis on critical thinking, pressure from a typically higher credit hour load, and a faster pace of exposure to new material when moving from lower- to upper-level coursework. The Biological Sciences program designed this course to help all transfer students make successful transitions, both academically and socially, to the University of Maryland at Shady Grove.

(Sponsoring Dept.: BIOL).

SG91	Noah Gibson, Annie Foster Ahmed F 9:30am - 10:20am *Registration is restricted to Biological Sciences-Shady Grove majors. Permission is required for all other students to enroll in courses at Shady Grove. Please email usgbiosci@umd.edu for permission.*	Seats (Total: 40) BLD2 3022

BSCI329 **Instructional Assistance Practicum**

(Perm req)

Credits: 1-2 Grading Method: Regular, Pass-Fail

Students serve as instructional assistants in selected undergraduate biology courses. Roles and responsibilities are determined on a course- specific basis and approved by the College Undergraduate Program Committee.

Prerequiste: permission of department. (Sponsoring Dept.: BIOL). Credit cannot be applied to the requirements of any Biological Sciences Major.

1016	Hilary Bierman Contact instructor or department for details.	Seats (Total: 10)	
1250	Justicia Opoku-Edusei Contact instructor or department for details.	Seats (Total: 20)	
2080	Todd Cooke, Sabrina Kramer Contact instructor or department for details.	Seats (Total: 10)	

BSCI330 **Cell Biology and Physiology**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in CHEM131 and CHEM132. And minimum grade of C- in BSCI170 and BSCI171; or minimum grade of C- in BSCI105. Restriction: Must not have completed BSCI230. Credit only granted for: BSCI230 or BSCI330. Formerly: BSCI230.

Biochemical and physiological mechanisms underlying cellular function. Properties of cells which make life possible and mechanisms by which cells provide energy, reproduce, and regulate and integrate with each other and their environment.

(Sponsoring Dept.: BIOL). Specialization Areas: PHNB, CEBG, MICB, ECEV, and GENB. Students must pay a $40.00 laboratory materials fee.

0101	Ibrahim Ades MWF 9:00am - 9:50am M 11:00am - 1:50pm	Seats (Total: 24) BRB 1101 BPS 0207	 Lab
0102	Ibrahim Ades MWF 9:00am - 9:50am M 2:00pm - 4:50pm	Seats (Total: 24) BRB 1101 BPS 0207	 Lab

0103	Ibrahim Ades MWF 9:00am - 9:50am Tu 8:00am - 10:50am	Seats (Total: 24) BRB 1101 BPS 0207	 Lab
0104	Ibrahim Ades MWF 9:00am - 9:50am Tu 11:00am - 1:50pm	Seats (Total: 24) BRB 1101 BPS 0207	 Lab
0105	Ibrahim Ades MWF 9:00am - 9:50am W 11:00am - 1:50pm	Seats (Total: 24) BRB 1101 BPS 0207	 Lab
0107	Ibrahim Ades MWF 9:00am - 9:50am W 6:00pm - 8:50pm	Seats (Total: 24) BRB 1101 BPS 0207	 Lab
0108	Ibrahim Ades MWF 9:00am - 9:50am Th 8:00am - 10:50am	Seats (Total: 24) BRB 1101 BPS 0207	 Lab
0109	Ibrahim Ades MWF 9:00am - 9:50am Th 11:00am - 1:50pm	Seats (Total: 24) BRB 1101 BPS 0207	 Lab
0111	Ibrahim Ades MWF 9:00am - 9:50am M 6:00pm - 8:50pm	Seats (Total: 24) BRB 1101 BPS 0207	 Lab
0114	Ibrahim Ades MWF 9:00am - 9:50am Th 2:00pm - 4:50pm	Seats (Total: 24) BRB 1101 BPS 0207	 Lab
1101	Kenneth Frauwirth TuTh 12:30pm - 1:45pm M 11:00am - 1:50pm	Seats (Total: 24) ESJ 2208 BPS 0213	 Lab
1102	Kenneth Frauwirth TuTh 12:30pm - 1:45pm M 2:00pm - 4:50pm	Seats (Total: 24) ESJ 2208 BPS 0213	 Lab

1103	Kenneth Frauwirth TuTh 12:30pm - 1:45pm Tu 8:30am - 11:20am	Seats (Total: 24) ESJ 2208 BPS 0213	 Lab
1104	Kenneth Frauwirth TuTh 12:30pm - 1:45pm Tu 2:00pm - 4:50pm	Seats (Total: 24) ESJ 2208 BPS 0213	 Lab
1105	Kenneth Frauwirth TuTh 12:30pm - 1:45pm W 11:00am - 1:50pm	Seats (Total: 24) ESJ 2208 BPS 0213	 Lab
1106	Kenneth Frauwirth TuTh 12:30pm - 1:45pm W 2:00pm - 4:50pm	Seats (Total: 24) ESJ 2208 BPS 0213	 Lab
SEF1	Elizabeth Read-Connole Tu 6:30pm - 9:30pm Th 6:30pm - 9:30pm *Restricted to students in the SIE Program. Click here for more information.*	Seats (Total: 24) PLS 1146 BPS 0207	 Lab
SG91	Hadiya Woodham TuTh 11:00am - 12:15pm Th 2:00pm - 4:50pm *Registration is restricted to Biological Sciences-Shady Grove majors. Permission is required for all other students to enroll in courses at Shady Grove. Please email usgbiosci@umd.edu for permission.*	Seats (Total: 16) BLD2 3022 BLD2 4012	 Lab
SG92	Hadiya Woodham TuTh 11:00am - 12:15pm Tu 2:00pm - 4:50pm	Seats (Total: 12) BLD2 3022 BLD2 4012	 Lab

BSCI330H **Cell Biology and Physiology**

(Perm req)

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in CHEM131 and CHEM132. And minimum grade of C- in BSCI170 and BSCI171; or minimum grade of C- in BSCI105. Restriction: Must not have completed BSCI230. Credit only granted for: BSCI230 or BSCI330. Formerly: BSCI230.

Biochemical and physiological mechanisms underlying cellular function. Properties of cells which make life possible and mechanisms by which cells provide energy, reproduce, and regulate and integrate with each other and their environment.

(Sponsoring Dept.: BIOL). Specialization Areas: PHNB, CEBG, MICB, ECEV and GENB. Restricted to students in the Integrated Life Science Honors program and permission of the instructor. Students must pay a $40.00 laboratory materials fee.

0101	Sabrina Kramer MWF 11:00am - 11:50am Tu 2:00pm - 4:50pm	Seats (Total: 24) PLS 1140 BPS 0207	 Lab
0102	Sabrina Kramer MWF 11:00am - 11:50am W 2:00pm - 4:50pm	Seats (Total: 24) PLS 1140 BPS 0207	 Lab
0103	Sabrina Kramer MWF 11:00am - 11:50am W 6:00pm - 8:50pm	Seats (Total: 24) PLS 1140 BPS 0213	 Lab
0104	Sabrina Kramer MWF 11:00am - 11:50am Th 2:00pm - 4:50pm	Seats (Total: 24) PLS 1140 BPS 0213	 Lab

BSCI333 **Principles of Paleontology**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GEOL102; or (BSCI207 or BSCI392); or permission of CMNS-Geology department. Also offered as: GEOL331. Credit only granted for: GEOL 331 or BSCI 333.

A review of the theory, principles, and applications of Paleontology. A systematic overview of the morphology, evolution, and relationships of the major fossil-producing taxa.

0101	Thomas Holtz, John Merck TuTh 9:30am - 10:45am Th 2:00pm - 5:00pm	Seats (Total: 20) JMZ 1120 GEO 2107	 Lab

BSCI338B **Special Topics in Biology; Marine Biology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Lectures, seminars, mini-courses and other special instruction in various biological subjects.

Prerequisite: BSCI160. (Sponsoring Dept: BIOL). Acceptable towards Biological Sciences Specialization Areas: GENB and ECEV.

0101	Marjorie Reaka	Seats (Total: 40)
	TuTh 11:00am - 12:15pm	BPS 1238

BSCI338D **Special Topics in Biology; Complexity of Cancer**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Lectures, seminars, mini-courses and other special instruction in various biological subjects.

(Sponsoring Dept.: BIOL).

Contact department for information to register for this course.

BSCI338G **Special Topics in Biology; Seminar on Deregulated Cell Growth in Cancer and Drug Development**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Lectures, seminars, mini-courses and other special instruction in various biological subjects.

Prerequisite: BSCI330. (Sponsoring Dept.: BIOL). Acceptable towards Biological Sciences Specialization Areas: PHNB and GENB. This is a seminar-style course meant to give students opportunities to research independently, prepare, and present professional-level lecturesfocusing on topics in cancer biology and on the developments of anti-cancer drugs.

0101	Ibrahim Ades	Seats (Total: 20)
	WF 12:00pm - 12:50pm	BPS 1238

BSCI338I **Special Topics in Biology; Medical Biotechnology & Drug Development**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Lectures, seminars, mini-courses and other special instruction in various biological subjects.

(Sponsoring Dept.: BIOL).

Contact department for information to register for this course.

BSCI338J **Special Topics in Biology; Medical Exploration of HIV/AIDS**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Lectures, seminars, mini-courses and other special instruction in various biological subjects.

(Sponsoring Dept.: BIOL).

Contact department for information to register for this course.

BSCI338M **Special Topics in Biology; Human Health and Disease: A Clinical Approach**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Lectures, seminars, mini-courses and other special instruction in various biological subjects.

(Sponsoring Dept.: BIOL).

Contact department for information to register for this course.

BSCI338X **Special Topics in Biology; Sexual Selection in Nature**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Lectures, seminars, mini-courses and other special instruction in various biological subjects.

Prerequisite: BSCI207; Recommended: BSCI360 or BSCI370; or permission of the Instructor. (Sponsoring Dept.: BIOL). Acceptable toward Biological Sciences specialization areas: ECEV and GENB (Ecology, Behavior & Organismal). Sexual selection drives some of the most spectacular, if not bizarre, traits in nature. We will explore how this powerful and pervasive evolutionary force shapes sexual traits and regulates species boundaries.

0101	Heidi Fisher	Seats (Total: 18)
	TuTh 3:30pm - 4:45pm	BPS 1228

BSCI338Z **Special Topics in Biology; Field Research**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Lectures, seminars, mini-courses and other special instruction in various biological subjects.

(Sponsoring Dept: BIOL). Cannot be used as credit toward the major requirements for any Biological Sciences major. Contact the Biology Department Undergraduate Office for course information.

Contact department for information to register for this course.

BSCI339C **Selected Topics in Biology; Cell Biology Lab**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Lectures, seminars, and other selected instruction courses in various biological subject matter.

Prerequisites: BSCI420. Credit will be granted for BSCI339C or BSCI421. (Sponsoring Dept.: BIOL). Acceptable toward Biological Sciences Specialization Areas: PHNB, CEBG, and GENB. Students must pay a $40.00 lab materials fee.

0101	Meredith Bohannon	Seats (Total: 3)
	Contact instructor or department for details.	

BSCI339D **Selected Topics in Biology; Biology of Chemosensory Systems**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Lectures, seminars, and other selected instruction courses in various biological subject matter.

Prerequisite: BSCI353. (Sponsoring Dept.: BIOL). Applicable towards Biological Sciences Specialization areas: GENB, PHNB.

0101	Ricardo Araneda	Seats (Total: 10)
	MW 2:00pm - 3:15pm	BPS 2249

BSCI339G **Selected Topics in Biology; Advanced Physiology**

(Perm req)

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Lectures, seminars, and other selected instruction courses in various biological subject matter.

Prerequisite: Permission of the department. (Sponsoring Dept: BIOL). Applicable towards Biological Sciences Specialization Areas: PHNB. For students who have completed BSCI440 Mammalian Physiology and want to explore how organ systems are designed to solve fundamental physiological problems. Diverse examples, from comparative physiology to clinical cases, will be considered to illustrate basic principles of systems physiology.

0101	Joshua Singer	Seats (Total: 16)
	Tu 2:00pm - 3:50pm	BPS 2249

BSCI339I **Selected Topics in Biology; Cellular Mechanisms of Aging and Disease**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Lectures, seminars, and other selected instruction courses in various biological subject matter.

Prerequisite: BSCI330. (Sponsoring Dept.: BIOL). Acceptable toward Biological Sciences Specialization Areas: PHNB, CEBG cell biology category, GENB cell biology/physiology category. This course will explore the cellular mechanisms underlying aging and a variety of noninfectious diseases and disorders ranging from diabetes and obesity to Alzheimer's and variosu cancers. In addition to lectures, students will read and discuss relevant primary and secondary literature. Assessments will include student-led discussion of primary literature and group presentations of disease topics.

0101	Hadiya Woodham	Seats (Total: 36)
	Class time/details on ELMs	ONLINE

BSCI339K **Selected Topics in Biology; Natural History, Ecology, and Geology of Alaska**

(Perm req)

Credits: 3 Grading Method: Regular

Lectures, seminars, and other selected instruction courses in various biological subject matter.

Prerequisite: C- or better in BSCI160 or comparable course. (Sponsoring Dept.: BIOL.) Acceptible towards Biology Sciences Specializations ECEV and GENB (Ecology, Behavior, and Organismal Area). This travel-study course to Alaska will focus on Alaskan culture, history, ecology, and geology. Students will do some research on animals and plants we will encounter there as well as the impact of fishing, mining, timbering, climate change, and tourism on the land and people. Final projects will be due once we return to College Park. The actual trip will last about two weeks and take place in the summer. There will be several pre-trip orientation meetings in the spring and post-trip meetings in the fall. Students are selected by application and must pay a program fee to cover transportation, lodging, food, and activities. For more information, contact Dr. Reid Compton (compton@umd.edu).

0101	Reid Compton	Seats (Total: 20)
	Contact instructor or department for details.	

BSCI339T **Selected Topics in Biology; The Science of Complementary and Alternative Medicine**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Lectures, seminars, and other selected instruction courses in various biological subject matter.

(Sponsoring Dept.: BIOL). Registration is restricted to Biological Sciences-Shady Grove majors. Permission is required for UMCP undergraduate students to enroll in courses at Shady Grove. Please email usgbiosci@umd.edu for permission.

SG91	Beth Parent	Seats (Total: 25)
	M 1:00pm - 3:30pm	BLD1 108

BSCI339W **Selected Topics in Biology; Molecular Neuroethology**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Lectures, seminars, and other selected instruction courses in various biological subject matter.

Prerequisite: C- or better in BSCI353 (required) and C- or better in BSCI410 (recommended)or permission of the Instructor. (Sponsoring Dept.:Biol). Acceptable towards Biological Sciences Specialization Areas GENB, CEBG, and PHNB. The brain generates a tremendous variety of behaviors, but how it achieves these feats remains largely unknown. This course will focus on the use of molecular genetic approaches to understand the brain circuits underlying behavior.

0101	Scott Juntti	Seats (Total: 30)
	TuTh 3:30pm - 4:45pm	BPS 0283

BSCI348 **Special Topics in Cell Biology and Molecular Genetics**

(Perm req)

Credits: 1-4

Grading Method: Regular, Pass-Fail, Audit

Presentation and discussion of special subjects in the field of cell biology and molecular genetics. A maximum of three credit hours of BSCI 348 may be applied to major.

(Sponsoring Dept.: CBMG). May be repeated, but only 3 credits may be applied to major requirements.

Contact department for information to register for this course.

BSCI348A **Special Topics in Cell Biology and Molecular Genetics; Microbiology Undergraduate Teaching Practicum**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Presentation and discussion of special subjects in the field of cell biology and molecular genetics. A maximum of three credit hours of BSCI 348 may be applied to major.

(Sponsoring Dept.: CBMG). Students will act as Undergraduate Teaching Assistants for BSCI223. Prerequisite: A or B in BSCI223 and permission of instructor. Students must be available for one of the BSCI223 lab periods. Students interested in this teaching/leadership opportunity should contact Dr. John Buchner for application information: This course is applicable for the Enrichment credits required of all Biological Sciences students in majors with 0404 codes. For others this is elective credit. Formerly: BSCI348U.

0101	John Buchner	Seats (Total: 25)
	F 8:00am - 8:50am	BPS 1234
	Contact instructor or department for details.	

BSCI348P **Special Topics in Cell Biology and Molecular Genetics; Introductory Biology Curriculum and Instruction Practicum**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Presentation and discussion of special subjects in the field of cell biology and molecular genetics. A maximum of three credit hours of BSCI 348 may be applied to major.

(Sponsoring Dept.: CBMG). Students will learn about methodologies and curriculum tools applicable to the field of undergraduate science education; the practicum component of the course will allow students to directly apply such innovative approaches through an undergraduate teaching and learning assistantship (UTLA) in conjunction with BSCI105. Prerequisite: A or B in BSCI105 and permission of instructor. Student must be available for one of the BSCI105 lecture periods (MWF 10-10:50). Students interested in this teaching/leadership opportunity should contact either Dr. Patricia Shields (pshields@umd.edu) for further information. This course is applicable for the Enrichment credits required of all Biological students in majors with 0404 codes. For others this is an elective credit.

0201	Patricia Shields	Seats (Total: 20)
	M 5:00pm - 7:00pm Contact instructor or department for details.	ESJ 2212

BSCI348Q **Special Topics in Cell Biology and Molecular Genetics; Introdutory Biology Learing Assistantship**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Presentation and discussion of special subjects in the field of cell biology and molecular genetics. A maximum of three credit hours of BSCI 348 may be applied to major.

(Sponsoring Dept.: CBMG). Students apply methodologies learned in BSCI348P by serving as an undergraduate learning assistant (ULA) in conjunction with BSCI170 (formerly BSCI105). Prerequisite: A or B in BSCI348P and permission of instructor. Student must be available for one of the BSCI170 lecture periods (MWF 11-11:50 or 2:00-2:50). Students interested in this teaching/leadership opportunity should contact Dr. Patricia Shields (pshields@umd.edu) for further information.

0101	Patricia Shields	Seats (Total: 40)
	M 6:00pm - 7:00pm Contact instructor or department for details.	ESJ 2212

BSCI348R **Special Topics in Cell Biology and Molecular Genetics; Microbiology Internship**

(Perm req)

Credits: 1-4

Grading Method: Regular, Pass-Fail, Audit

Presentation and discussion of special subjects in the field of cell biology and molecular genetics. A maximum of three credit hours of BSCI 348 may be applied to major.

(Sponsoring Dept.: CBMG). This course is an opportunity for students interested in microbiology to pursue a research project in an off-campus lab. The student must see the instructor and complete an information sheet found on the web site, prior to enrolling in the course.

0101	David Straney	Seats (Total: 8)
	Contact instructor or department for details.	

BSCI353 **Principles of Neuroscience**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (BSCI207, BSCI330). Corequisite: PHYS122, PHYS142, or PHYS132.

Principles of nervous system function, ranging from molecular and cellular basis of neuron function through nervous system integration.

(Sponsoring Dept.: BIOL). Acceptable toward Bilogical Sciences Specialization Areas: CEBG (Cell Biology), Development, Physiology), and PHNB.

0101	Amanda Chicoli	Seats (Total: 180)
	TuTh 12:30pm - 1:45pm	HJP 0226
SG91	David Sandstrom	Seats (Total: 40)
	MW 11:00am - 12:15pm	BLD2 3022
	Registration is restricted to Biological Sciences-Shady Grove majors. Permission is required for all other students to enroll in courses at Shady Grove. Please email usgbiosci@umd.edu for permission.	

BSCI360 **Principles of Animal Behavior**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI160 and BSCI161; or BSCI106. And BSCI170 and BSCI171; or BSCI105. And BSCI222.

Study of animal behavior with emphasis on its evolution and function. Topics include genetic basis of behavior, communication, aggression, foraging, cooperation, mate selection, and relevance for conservation.

(Sponsoring Dept.: BIOL). Acceptable toward Biological Sciences specialization areas: PHNB, and GENB.

0101	Gerald Borgia MW 11:00am - 11:50am F 9:00am - 9:50am	Seats (Total: 20) PLS 1130 PLS 1162	 Discussion
0102	Gerald Borgia MW 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 20) PLS 1130 PLS 1162	 Discussion
0103	Gerald Borgia MW 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 20) PLS 1130 PLS 1162	 Discussion

BSCI361 **Principles of Ecology**

Credits: 4 Grading Method: Regular, Pass-Fail

Prerequisite: BSCI160 and BSCI161; or BSCI106. And (MATH130, MATH136, or MATH140).

Basic principles of population, community, and ecosystem ecology. Use o these principles to predict possible consequences of human-caused changes in the environment and to understand the level of uncertainty of those predictions.

(Sponsoring Dept.: BIOL). Acceptable toward Biological Sciences Specialization Areas: ECEV and GENB.

0101	Nathan Swenson TuTh 9:30am - 10:45am W 2:00pm - 2:50pm	Seats (Total: 25) PLS 1130 PLS 1146	 Discussion
0102	Nathan Swenson TuTh 9:30am - 10:45am W 3:00pm - 3:50pm	Seats (Total: 25) PLS 1130 PLS 1115	 Discussion
0103	Nathan Swenson TuTh 9:30am - 10:45am W 4:00pm - 4:50pm	Seats (Total: 25) PLS 1130 PLS 1115	 Discussion

BSCI363 **The Biology of Conservation and Extinction**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in BSCI361.

Ecology, evolutionary biology, and paleontology will be applied to the study of conservation, species invasions, and extinction.

(Sponsoring Dept.: BIOL). Acceptable toward Biological Sciences Specialization Areas: ECEV and GENB (Ecology, Behavior & Organismal).

0101	Francisca Saavedra	Seats (Total: 40)	
	MWF 11:00am - 11:50am	ATL 1114	

BSCI370 **Principles of Evolution**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI160 and BSCI161; or BSCI106.

Understanding evolutionary processes in a natural and human environment including adaptation; DNA sequence, protein, and genome evolution; evolution of developmental mechanisms; mechanisms of evolutionary change (mutation, natural selection, drift); epidemiology; coevolution and biological control; speciation; comparative methods; extinction and conservation; human evolution.

(Sponsoring Dept.: BIOL) Applies to Biological Sciences Specialization Areas: PHNB, GENB, and ECEV.

0101	Carlos Machado	Seats (Total: 100)	
	TuTh 11:00am - 12:15pm	PLS 1140	

BSCI374H **Mathematical Modeling in Biology**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH131, MATH136, or MATH141. Also offered as: HLSC374. Credit only granted for: BSCI374, BSCI474, or HLSC374. Formerly: BSCI474.

Students will learn empowering mathematical techniques through the understanding of biological models. Models are chosen from a variety of biological disciplines. Mathematical skills that will be developed along the way include: solving non-linear difference equations, eigenvector analysis, and the implementation of these algorithms as computer models.

(Sponsoring Dept.: BIOL). Applies as an upper-level laboratory course to Biological Sciences Sciences Specialization Areas: GENB, ECEV, and PHNB.

0101	Jonathan Simon	Seats (Total: 20)	
	TuTh 9:30am - 10:45am	CCC 1111	
	M 1:00pm - 3:50pm	CCC 1111	Lab

BSCI378H **Cell Biology and Molecular Genetics Department Honors Seminar**

(Perm req)

Credits: 1 Grading Method: Regular

Required seminar for all students participating in departmental honors research program.

(Sponsoring Dept.: CBMG). Restricted to students participating in the CBMG Departmental Honors Program. If you are interested in a CBMG Departmental Honors Research experience, please see the CBMG department web site for detailed information.

Click here for more course information.

0101	Louisa Wu	Seats (Total: 19)
	F 2:00pm - 2:50pm	HJP 1216

BSCI379G **Cell Biology and Molecular Genetics Department Research; Research in Cell Biology and Molecular Genetics**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

This course is arranged to provide qualified majors an opportunity to pursue research problems under the supervision of a member of the department.

Prequisite: permission of department.(Sponsoring Dept: CBMG). See CBMG department Undergraduate office.

Contact department for information to register for this course.

BSCI379H **Cell Biology and Molecular Genetics Department Honors Research**

(Perm req)

Credits: 1-3 Grading Method: Regular

Student should consult program guidelines. Research project carried out under guidance of faculty advisor.

Corequisite: BSCI378H. (Sponsoring Dept.: CBMG). Restricted to students participating in the CBMG Departmental Honors Program.

Click here for more course information.

Contact department for information to register for this course.

BSCI379L **Cell Biology and Molecular Genetics Department Research; Lab Research**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

This course is arranged to provide qualified majors an opportunity to pursue research problems under the supervision of a member of the department.

(Sponsoring Dept.: CBMG). Any combination of 3 credits of BSCI 379G, BSCI 379L, and BSCI 379H can be used to satisfy the enrichment requirement in CEBG, ECEV, MICB, or PHNB or an upper-level elective in GENB. Students must have successfully completed at least one semester in a Cell Biology & Molecular Genetics department research lab before getting permission to take BSCI 379L in the same lab. Students completing at least 4 credits of laboratory research including at east one semester taking BSCI 379L may substitute this experience for one of the two upper-level laboratory courses required to complete any BSCI major.

Contact department for information to register for this course.

BSCI389 **Entomology Department Research**

(Perm req)

Credits: 1-2 Grading Method: Regular, Pass-Fail, Audit

Credit to be determined by the department. Should be taken during the junior year. Investigations of assigned entomological problems. No more than 4 credit hours of BSCI389 may be applied to the 120 credit hours needed for the Bachelor's degree.

(Sponsoring Dept.: ENTM).

Contact department for information to register for this course.

BSCI389H **Entomology Department Honors Research**

(Perm req)

Credits: 1-2 Grading Method: Regular

(Sponsoring Dept.: ENTM).

Contact department for information to register for this course.

BSCI389L **Entomology Department Research; Lab Research**

Credits: 1-2 Grading Method: Regular, Pass-Fail, Audit

Credit to be determined by the department. Should be taken during the junior year. Investigations of assigned entomological problems. No more than 4 credit hours of BSCI389 may be applied to the 120 credit hours needed for the Bachelor's degree.

(Sponsoring Dept.: ENTM).

Contact department for information to register for this course.

BSCI398H **Biology Department Honors Seminar**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Required seminar for all students participating in departmental honors research program.

(Sponsoring Dept. :BIOL).

1000	Alexandra Bely M 4:00pm - 5:00pm	Seats (Total: 35) BPS 1208

BSCI399 **Biology Department Research; Biology Department Research**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Research and/or integrated reading in biology under the direction and close supervision of a member of the faculty.

(Sponsoring Dept: BIOL)

Contact department for information to register for this course.

BSCI399H **Biology Department Honors Research**

(Perm req)

Credits: 1-2 Grading Method: Regular

A laboratory research problem; required each semester during honors participation and culminating in an honors thesis.

(Sponsoring Dept: BIOL).

Contact department for information to register for this course.

BSCI399L **Biology Department Research; Biology Lab Research**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Research and/or integrated reading in biology under the direction and close supervision of a member of the faculty.

(Sponsoring Dept.: BIOL).

Contact department for information to register for this course.

BSCI404 **Cell Biology from a Biophysical Perspective**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI330. Recommended: PHYS121 and PHYS122; or completion of PHYS131 and PHYS132 recommended. Also offered as: BIOL704, BIPH704. Credit only granted for: BSCI338O, BSCI404, BIOL704, BIOL708O, or BIPH704. Formerly: BSCI338O.

An approach to cell biology by focusing on mechanisms and unifying physical paradigms. It will not assume a great deal of factual biological knowledge, but will expect a background that prepares students to think mechanistically and quantitatively.

(Sponsoring Dept.: BIOL). Acceptable toward Biological Sciences Specialization Areas: CEBG (Cell Biology), GENB (Cell Biology, Development, Physiology), and PHNB.

0101	Sergei Sukharev	Seats (Total: 15)	
	TuTh 3:30pm - 4:45pm	PLS 1113	

BSCI405 **Population and Evolutionary Genetics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in BSCI222; and 1 course with a minimum grade of C- from (MATH131, MATH136, MATH141). Also offered as: BIOL709. Credit only granted for: BSCI405, BSCI339J, or BIOL709C. Formerly: BSCI339J.

Genetic variation within a population provides the basis for future evolution as well as a record of past evolution. The genomics revolution provides data on this variation that, together with mathematical models, allow us to read this record to reconstruct evolutionary trajectories. Examples will focus on hominin and pathogen evolution. In the lab, students will use models to explore how genetic variation (allele frequencies) changes over time and space.

(Sponsoring Dept.: BIOL). Acceptable toward Biological Sciences Specialization Areas: CEBG (Genetics), ECEV, and (Genetics & Evolution).

0101	Philip Johnson	Seats (Total: 20)	
	MW 11:00am - 11:50am	HBK 0123	
	F 10:00am - 11:50am	PLS 1121	Lab

BSCI410 **Molecular Genetics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI222. And must have completed CHEM233; or (CHEM231 and CHEM232).

An advanced genetics course emphasizing the molecular basis of gene structure and function in the context of modern approaches to the genetics of humans and model organisms.

(Sponsoring Dept.: CBMG). Acceptable toward Biological Sciences specialization areas: PHNB, MICB, CEBG, GENB and CMBG.

0101	Stephen Mount	Seats (Total: 90)
	TuTh 11:00am - 12:15pm	BPS 1250

0201	Leslie Pick TuTh 9:30am - 10:45am	Seats (Total: 90) PLS 1140	

BSCI411 **Bioinformatics and Integrated Genomics**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in BSCI222. Recommended: BSCI410. Credit only granted for: BSCI380 or BSCI411. Formerly: BSCI380.

Computational methods for the study of biological sequence data in comparative biology and evolution. Analysis of genome content and organization. Database searching, pairwise and multiple sequence alignment, phylogenetic, methods, pattern recognition, and functional inference. Functional and comparative genomics approaches.

(Sponsoring Dept.: CBMG). Acceptable to Biological Specialization Areas: CEBG, MICB, and GENB. Studets must pay a $40.00 Laboratory Materials fee.

0101	Najib El-Sayed, Sridhar Hannenhalli MWF 10:00am - 10:50am M 2:00pm - 5:00pm	Seats (Total: 25) MCB 1207 PLS 1121	 Lab
0102	Sridhar Hannenhalli, Najib El-Sayed MWF 10:00am - 10:50am W 2:00pm - 5:00pm	Seats (Total: 25) MCB 1207 PLS 1121	 Lab

BSCI411H **Bioinformatics and Integrated Genomics**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in BSCI222. Recommended: BSCI410. Credit only granted for: BSCI380 or BSCI411. Formerly: BSCI380.

Computational methods for the study of biological sequence data in comparative biology and evolution. Analysis of genome content and organization. Database searching, pairwise and multiple sequence alignment, phylogenetic, methods, pattern recognition, and functional inference. Functional and comparative genomics approaches.

(Sponsoring Dept.: CBMG). Acceptable to Biological Specialization Areas: CEBG, MICB, and GENB. Studets must pay a $40.00 Laboratory Materials fee.

0101	Najib El-Sayed, Sridhar Hannenhalli MWF 10:00am - 10:50am M 2:00pm - 5:00pm	Seats (Total: 25) MCB 1207 PLS 1121	 Lab

0102	Sridhar Hannenhalli, Najib El-Sayed MWF 10:00am - 10:50am W 2:00pm - 5:00pm	Seats (Total: 25) MCB 1207 PLS 1121	 Lab

BSCI414 **Recombinant DNA Laboratory**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI222.

An advanced course offering hands-on experience in performing recombinant DNA experiments. All current molecular biology techniques used for cloning prokaryotic genes, analyzing the gene products, and modifying the genes will be performed. Techniques include isolation of DNA, use of restriction enzymes; cloning procedures, PCR analysis, and Southern hybridizations. Lecture material focuses on interpretation of results generated in the laboratory.

(Sponsoring Dept.: CBMG). Acceptable toward Biological Sciences Specialization Areas: PHNB, MICB, CEBG and GENB. Students must pay a $40.00 laboratory materials fee.

0101	Caren Chang TuTh 2:00pm - 5:00pm	Seats (Total: 18) MCB 1135	 Lab

BSCI415 **Molecular Genetics Laboratory**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in BSCI410. Restriction: Junior standing or higher. Credit only granted for: BSCI348G or BSCI415. Formerly: BSCI348G.

Problem solving laboratory organized around extended projects that employ different approaches toward linking gene and function.

(Sponsoring Dept.: CBMG). Specialization Areas: CEBG and GENB. Students must pay a $40.00 laboratory materials fee.

0101	David Straney TuTh 2:00pm - 5:00pm	Seats (Total: 20) HJP 2226	 Lab

BSCI416 **Human Genetics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Prerequisite: Minimum grade of C- in BSCI410. Recommended: BSCI330.

Approaches to human genetics and applications to biology and medicine focusing on specific human genetic topics using primary research papers as the main resource.

(Sponsoring Dept.: CBMG).

Contact department for information to register for this course.

BSCI420 **Cell Biology Lectures**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI330, BSCI222, CHEM231, and CHEM232. Credit only granted for: BSCI420 or BSCI421.

Molecular and biochemical bases of cellular organization and function in eukaryotes.

(Sponsoring Dept: CBMG). Specialization Areas: PHNB, CEBG, and GENB.

0101	Norma Andrews TuTh 12:30pm - 1:45pm	Seats (Total: 55) PLS 1130	

BSCI424 **Pathogenic Microbiology**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI223.

The role of bacteria and fungi in the diseases of humans with emphasis upon the differentiation and culture of microorganisms, types of disease, modes of disease transmission, prophylactic, therapeutic, and epidemiological aspects.

(Sponsoring Dept.: CBMG). Acceptable toward Biological Sciences Specialization Areas: MICB and GENB (Category 2). Students must pay a $40.00 laboratory materials fee.

0101	Sandra Fox-Moon TuTh 11:00am - 11:50am MW 9:00am - 10:50am	Seats (Total: 18) MCB 1207 MCB 1143	 Lab
0102	Sandra Fox-Moon TuTh 11:00am - 11:50am MW 11:00am - 12:50pm	Seats (Total: 18) MCB 1207 MCB 1143	 Lab
0103	Sandra Fox-Moon TuTh 11:00am - 11:50am MW 1:00pm - 2:50pm	Seats (Total: 18) MCB 1207 MCB 1143	 Lab

BSCI430 **Developmental Biology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI222 and BSCI330.

Structural, functional and regulatory events and mechanisms that operate during development to produce an integrated, multicellular organism composed of a multitude of differentiated cell types.

(Sponsoring Dept.: BIOL). Acceptable toward Biological Sciences Specialization Areas: CEBG(Cell Biology), ECEV, GENB (Cell Biology, Development, Physiology) and PHNB.

0101	Caitlin Fox	Seats (Total: 30)
	TuTh 2:00pm - 3:15pm	BPS 1228

BSCI437 **General Virology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI222; or permission of CMNS-Biological Sciences UG Program. Restriction: Junior standing or higher.

Discussion of the physical and chemical nature of viruses, virus cultivation and assay methods, virus replication, viral diseases with emphasis on the oncogenic viruses, viral genetics, and characteristics of the major virus groups.

(Sponsoring Dept.: CBMG). Acceptable toward Biological Sciences Specialization Areas: GENB, MICB and CEBG.

0101	Margaret Scull	Seats (Total: 60)
	MWF 11:00am - 11:50am	BPS 1243

BSCI440 **Mammalian Physiology**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI330; and (CHEM231 and CHEM232; or must have completed CHEM233). Or permission of CMNS-Biological Sciences UG Program.

A study of the cardiovascular, hemopoietic, gastrointestinal, renal and respiratory systems. Chemical and endocrine regulation of physiological functions in mammals. Course does not count as an upper level lab for BIOL majors (see BSCI441).

(Sponsoring Dept.: BIOL). Applies to Biological Sciences Specialization Areas: PHNB and GENB. BSCI 440 is a lecture/discussion format course. The laboratory is offered separately as BSCI 441.

0101	Colenso Speer MWF 10:00am - 10:50am M 11:00am - 12:50pm	Seats (Total: 30) ESJ 0224 BPS 0283	Discussion
0102	Colenso Speer MWF 10:00am - 10:50am M 2:00pm - 3:50pm	Seats (Total: 30) ESJ 0224 BPS 1236	Discussion
0103	Colenso Speer MWF 10:00am - 10:50am M 2:00pm - 3:50pm	Seats (Total: 30) ESJ 0224 BPS 1238	Discussion
0104	Colenso Speer MWF 10:00am - 10:50am W 11:00am - 12:50pm	Seats (Total: 30) ESJ 0224 BPS 0283	Discussion
0107	Colenso Speer MWF 10:00am - 10:50am Tu 8:00am - 9:50am	Seats (Total: 30) ESJ 0224 BPS 1232	Discussion

BSCI441 **Mammalian Physiology Laboratory**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in BSCI440.

Laboratory exercises in experimental mammalian physiology.

(Sponsoring Dept.: BIOL). Applies to Biological Sciences Specialization Areas: PHNB and GENB. Students must pay a $40.00 laboratory materials fee.

0101	Hilary Bierman F 12:00pm - 12:50pm Tu 2:00pm - 5:50pm	Seats (Total: 20) BPS 1243 PLS 1181	Lab
0102	Hilary Bierman F 12:00pm - 12:50pm W 2:00pm - 5:50pm	Seats (Total: 20) BPS 1243 PLS 1181	Lab

BSCI443 **Microbial Physiology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in BSCI223. And minimum grade of C- in BCHM461; or minimum grade of C- in BCHM463.

Microbial cellular and population growth. Fermentation metabolism, physiology of anaerobiosis, and energy conservation and transformation in bacterial membranes. Efficiency of energy utilization for growth. Membrane structure and transport. Bacterial chemotaxis. Regulation of bacterial chromosome replication, RNA and protein synthesis. Control of metabolic pathways.

(Sponsoring Dept.: CBMG).

0101	Steven Hutcheson MW 11:00am - 12:15pm	Seats (Total: 50) MCB 1207

BSCI447 **General Endocrinology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI330, CHEM241, and CHEM242.

Functions and dysfunctions of the endocrine system with special reference to mammals.

(Sponsoring DEPT.: BIOL). Specialization Areas: PHNB and GENB.

0101	Justicia Opoku-Edusei MWF 10:00am - 10:50am	Seats (Total: 70) BPS 1243

BSCI452 **Diseases of the Nervous System**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in BSCI330; and minimum grade of C- in BSCI353. Also offered as: NACS728, BIOL708. Credit only granted for: BSCI452, BSCI338N, BIOL708E, or NACS728N. Formerly: BSCI338N.

An advanced course covering the neuroanatomy, function, and organization of the nervous system and its implication for pathology and disease.

(Sponsoring Dept.: BIOL). Acceptable toward Biological Sciences Specialization Areas: GENB and PHNB.

0101	Quentin Gaudry TuTh 12:30pm - 1:45pm	Seats (Total: 35) BPS 0283	
SEF1	Quentin Gaudry Tu 6:00pm - 9:00pm *Restricted to students in the SIE Program.*	Seats (Total: 25) PLS 1117	

BSCI454 **Neurobiology Laboratory**

Credits: 1 Grading Method: Regular

Prerequisite: Minimum grade of C- in BSCI330; and must have completed or be concurrently enrolled in BSCI353; and must have completed or be concurrently enrolled in PHYS122, PHYS132, or PHYS142.

Basic neuroanatomical techniques, intracellular and extracellular recordings of electrical potentials from nerve and muscle.

(Sponsoring Dept.: BIOL). Specialization areas: CEBG, PHNB, and GENB. Students must pay a $40.00 laboratory materials fee.

0101	Hilary Bierman M 2:00pm - 5:00pm	Seats (Total: 20) BPS 0257	Lab
0102	Hilary Bierman Tu 2:00pm - 5:00pm	Seats (Total: 20) BPS 0257	Lab
0103	Hilary Bierman W 2:00pm - 5:00pm	Seats (Total: 20) BPS 0257	Lab
0105	Hilary Bierman Th 2:00pm - 5:00pm	Seats (Total: 20) BPS 0257	Lab

BSCI460 **Plant Ecology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in BSCI361.

The dynamics of populations as affected by environmental factors with special emphasis on the structure and composition of natural plant communities, both terrestrial and aquatic.

(Sponsoring Dept.: BIOL). Acceptable toward Biological Sciences Specialization Areas: ECEV and GENB (Ecology, Behavior & Organismal).

0101	Nathan Swenson TuTh 8:00am - 9:15am	Seats (Total: 40) PLS 1119	

BSCI467 **Freshwater Biology**

Credits: 4 Grading Method: Regular, Pass-Fail

Prerequisite: Permission of CMNS-Biological Sciences UG Program.

Biology and ecology of freshwater invertebrates in lotic and lentic habitats, their adaptation to aquatic life, their function in aquatic ecosystems, and their relationship to environmental deterioration. Laboratory will include field trips, demonstrations, and identifications.

Specialization Areas: ECEV and GENB. There is a $40.00 lab fee for this course.

0101	William Lamp MWF 1:00pm - 1:50pm W 2:00pm - 4:50pm	Seats (Total: 24) BPS 0283 PLS 1161	 Lab
0102	William Lamp MWF 1:00pm - 1:50pm Th 2:00pm - 4:50pm	Seats (Total: 24) BPS 0283 PLS 1161	 Lab

BSCI471 **Molecular Evolution**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI222; or permission of CMNS-Biology department.

Patterns of DNA sequence variation within and between species, caused b nucleotide changes and the movement of transposable elements. Theories of molecular evolution, such as the neutral theory. Molecular clock hypothesis: its importance as a practical empirical tool in molecular genetics and systematics and its theoretical foundation.

(Sponsoring Dept.: BIOL). Acceptable toward Biological Sciences Specialization Areas: ECEV and GENB (Genetics & Evolution).

0101	Michael Cummings Class time/details on ELMs	Seats (Total: 25) ONLINE	

BSCI481 **Insect Diversity and Classification**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI337.

The techniques of collecting insects in the field and their classification into the latest hierarchical scheme. Field trips will visit habitats throughout the state. An insect collection is required.

(Sponsoring Dept.: ENTM).

0101	Jeffrey Shultz	Seats (Total: 30)	
	F 10:00am - 10:50am	PLS 1117	
	M 10:00am - 1:00pm	PLS 1161	Lab
	W 10:00am - 1:00pm	PLS 1161	Lab

BSCV CIVICUS Fall 2018

BSCV181 **Civicus Student and the University**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Restriction: Freshman standing; and must be in the Civicus program. Credit only granted for: BSOS181 or BSCV181. Formerly: BSOS181.

Knowledge and skills designed to utilize CIVICUS to enhance the college experience and preparation for civic engagement.

0101	Julie Randolph	Seats (Total: 27)
	M 2:00pm - 3:45pm	SOM 0101
0201	Julie Randolph	Seats (Total: 26)
	M 12:00pm - 1:45pm	SOM 0101

BSCV191 **Introduction to Civicus**

Credits: 3 Grading Method: Regular

Restriction: Must be in the Civicus program. Credit only granted for: BSCV191 or BSOS191. Formerly: BSOS191.

An introduction to the social and historical foundations of a civil society. An examination of the roles of individuals, groups, social institutions and community services.

0101	Korey Rothman	Seats (Total: 27)
	TuTh 9:30am - 10:45am	SOM 0101
0201	Korey Rothman	Seats (Total: 27)
	TuTh 2:00pm - 3:15pm	SOM 0101

BSCV301 **Leadership in a Multicultural Society**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCV191, SOCY105, and BSCV181. Restriction: Sophomore standing or higher. Credit only granted for: BSOS301 or BSCV301. Formerly: BSOS301.

A study and application of skills, historical context, theories, and concepts for constructive leadership in a pluralistic, multicultural, and diverse society. Social science methodologies and theories will provide the structure for the study of contemporary social problems, civil society issues, and leadership practices.

0201	Julie Randolph TuTh 11:00am - 12:15pm	Seats (Total: 25) SOM 0101
0301	Nicole Mehta TuTh 12:30pm - 1:45pm	Seats (Total: 25) SOM 0101

BSCV309 **Civicus Seminar**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Review and analysis of contemporary social issues.

Contact department for information to register for this course.

BSGC Global Communities Fall 2018

BSGC100 **The Student in the University: Global Communities**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be enrolled in Global Communities Living-Learning Program. By Permission Only (BPO).

Students will develop a sense of community within the program, become familiar with campus resources, gain skills and information to prepare for the Global Experience Semester, and explore the surrounding international community.

0101	Alexis Foley Tu 9:30am - 10:45am	Seats (Total: 25) DOR 0134
0102	Natalie Vinski Ibrahim Tu 11:00am - 12:15pm	Seats (Total: 25) DOR 0134

0103	Jazmin Pichardo Tu 2:00pm - 3:15pm	Seats (Total: 27) DOR 0134	
0104	Jeremy Gombin-Sperling Tu 12:30pm - 1:45pm	Seats (Total: 25) DOR 0134	

BSGC101 **Globalization**

(Perm req)

Credits: 3 Grading Method: Regular CORE: SB General Education: DSHS, SCIS

Restriction: Must be in Global Communities Living-Learning program.

An interdisciplinary exploration of the historical evolution and contemporary significance of growing interconnectedness in the world. We debate different perspectives on globalization and its impact on social, political, economic and cultural issues.

0101	Virginia Haufler Tu 3:30pm - 4:45pm Th 9:30am - 10:45am	Seats (Total: 25) TWS 0320 DOR 0134	Discussion
0102	Virginia Haufler Tu 3:30pm - 4:45pm Th 11:00am - 12:15pm	Seats (Total: 26) TWS 0320 DOR 0134	Discussion
0103	Virginia Haufler Tu 3:30pm - 4:45pm Th 2:00pm - 3:15pm	Seats (Total: 27) TWS 0320 DOR 0134	Discussion
0104	Virginia Haufler Tu 3:30pm - 4:45pm Th 3:30pm - 4:45pm	Seats (Total: 25) TWS 0320 DOR 0134	Discussion

BSGC302 **BSGC 302 Capstone: Global Connections**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in Global Communities Living-Learning program. By permission only (BPO). Additional information: This course is limited to second-year students in the Global Communities Living-Learning Program who have completed or are in the midst of completing their Global Experience requirement.

Final component of the Global Communities curriculum. The course connects the global experience with previous BSGC coursework.

Contact department for information to register for this course.

BSGC399 **Topical Investigations in Global Communities**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Variable from 1-3 credits and repeatable up to 6 if content varies.

0101	Virginia Haufler	Seats (Total: 10)
	Class time/details on ELMs	ONLINE

BSOS Behavioral and Social Sciences Fall 2018

BSOS248A **Leadership Seminar I; Ambassadors**

(Perm req)

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

A topics course in the behavioral and social sciences designed to develop student leaders with skills that will address important issues of the college and offers diverse viewpoints intended to challenge common perceptions of leadership, technology programs and communication.

Contact department for information to register for this course.

BSOS248D **Leadership Seminar I; Dean's Student Advisory Council**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

A topics course in the behavioral and social sciences designed to develop student leaders with skills that will address important issues of the college and offers diverse viewpoints intended to challenge common perceptions of leadership, technology programs and communication.

Contact department for information to register for this course.

BSOS248P **Leadership Seminar I; Peer Mentor Seminar I**

(Perm req)

Credits: 1 Grading Method: Regular

A topics course in the behavioral and social sciences designed to develop student leaders with skills that will address important issues of the college and offers diverse viewpoints intended to challenge common perceptions of leadership, technology programs and communication.

Contact department for information to register for this course.

BSOS258D **Leadership Practicum I; Dean's Student Advisory Council**

(Perm req)

Credits: 2

Grading Method: Regular, Pass-Fail, Audit

This course puts into practice the elements and skills learned in the seminar series that directly benefit the college.

Contact department for information to register for this course.

BSOS258L **Leadership Practicum I; DSAC Officers**

(Perm req)

Credits: 1

Grading Method: Regular

This course puts into practice the elements and skills learned in the seminar series that directly benefit the college.

Repeatable to 9 credits.

Contact department for information to register for this course.

BSOS258P **Leadership Practicum I; Peer Mentors**

(Perm req)

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

This course puts into practice the elements and skills learned in the seminar series that directly benefit the college.

Contact department for information to register for this course.

BSOS288I **Special Topics in Behavioral and Social Sciences; Internship Practicum in the Social Sciences**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Introductory special topics course focusing on an interdisciplinary topic related to behavioral and social sciences.

Contact department for information to register for this course.

BSOS288V **Special Topics in Behavioral and Social Sciences; Technology Apprentice Program**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Introductory special topics course focusing on an interdisciplinary topic related to behavioral and social sciences.

Restricted to BSOS students. Technical skills and pedagogical basics needed to support faculty uses of technology in the classroom. Web publishing, academic website development, creating/using digitized media, electronic presentation tools, and discussion group facilitation. The class will usually meet face-to-face for two and one-half hours per week; however, three or four times per semester, the class will meet online instead. Students will interact and be assessed on their participation in an online environment. For permission to enroll or more information, please contact margaret Weber at mweber@bsos.umd.edu.

Contact department for information to register for this course.

BSOS289I **Playing the Market: Managing Risk and Using Technical Analysis**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: SB	General Education: DSHS, DSSP, SCIS

Through readings, class discussion, guest lecturers, anda simulated portfolio construction and class trading competition, this course will introduce students to investing and trading, with special emphasis on the field of technical analysis. The technical approach to the markets focuses largelly on the analysis of price and volume patterns as indicators of stock trends. Students will learn how to evaluate companies using internet sources and a technical analysis program. Each student will be expected to use a set of trading rules to apply to theirtrading ofa virtual $100,000 margin portfolio and to manage risk. Students will develop an accurate view of the risks of benefits of trading stocks and an appreciation of the complexities involved in the technical approach to trading stocks. The course assumes no prior knowledge of the stock market.

FC01	David McCandlish, Eric Wish	Seats (Total: 174)
	F 9:30am - 12:30pm	LEF 2205
	Restricted to students in Freshmen Connection.	

BSOS330 **Programming for the Social Sciences: Statistical Computing using R**

Credits: 1	Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Students must have completed a least one college-level statistics course. Restriction: Must be enrolled in a BSOS major; or permission of instructor.

R is an open-source programming language, specialized for statistical computing, and provides a variety of statistical and graphical techniques that might be relevant for any BSOS program, such descriptive statistics, linear and non-linear regression, text mining, image processing. The R language is increasingly often employed in advanced statistics and data analytics, offering a wide range of application packages for effective programming. This course introduces the R language and several powerful packages in form of lectures, worked-out examples, and group exercises.

Non-BSOS majors should contact fklein@umd.edu for permission to register.

0101	Franz Klein	Seats (Total: 23)
	M 4:00pm - 6:00pm	LEF 0229

BSOS355 **Social Sciences Internship Practicum**

(Perm req)

Credits: 3 Grading Method: Regular General Education: DSSP

Restriction: Must have earned a minimum of 60 credits; and minimum cumulative GPA of 2.5; and must have completed at least 1 semester at UMD. Credit only granted for: BSOS388I or BSOS355. Formerly: BSOS388I.

BSOS 355 is an internship course open to all majors. It will enable students to articulate and apply the scholarship from the discipline related to their specific internship placement into a real-work environment.

0101	Kathryn Hopps	Seats (Total: 30)
	Contact instructor or department for details.	

BSOS358A **Leadership Practicum II; Ambassadors**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

This course puts into practice the advanced skills and elements learned in the seminar series that directly benefit the college.

Contact department for information to register for this course.

BSOS358P **Leadership Practicum II; Peer Mentors**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

This course puts into practice the advanced skills and elements learned in the seminar series that directly benefit the college.

Contact department for information to register for this course.

BSOS386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Contact department for information to register for this course.

BSOS388B **Behavioral and Social Sciences Special Topics; Innovation and Social Change: Do Good Now**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP, SCIS

Advanced special topics course focusing on an interdisciplinary topic related to the Behavioral and Social Sciences.

Restriction: Open to BSOS majors only. Learn about the field of social innovation and entrepreneurship through this dynamic and unique class. Explore social change by studying leadersin the field, case studies and popular text. Engage with small teams of like-minded students to create and implement projects that benefit society. Combine the imagination and creativity of transformative actionfor social good with the pragmatic approach of entrepreneurship and innovation, providing you an opportunity to make animpact for a cause or issue of your choice. Course projects include participation in a social impact prize competition where teams have the chance to win moneyfor the solutions they develop.

0101	Tricia Homer	Seats (Total: 30)
	Tu 3:00pm - 5:30pm	HBK 0109

BSOS388E **Behavioral and Social Sciences Special Topics; CIDCM Minor Practicum**

(Perm req)

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

Advanced special topics course focusing on an interdisciplinary topic related to the Behavioral and Social Sciences.

Contact department for information to register for this course.

BSOS388F **Behavioral and Social Sciences Special Topics; Innovation in the Public Sector**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Advanced special topics course focusing on an interdisciplinary topic related to the Behavioral and Social Sciences.

Prerequisite: PSYC100, GVPT100 or ECON200. Also offered as GVPT388B. Credit will be granted for BSOS388f or GVPT 388B. How does innovation occur in the public sector? How can government serve as a catalyst for problem-solving? Using the tools of innovation and entrepreneurship, this laboratory course engages students in a semester-long project to innovate change around a specific public sector issue or industry in our local or regional community. Some examples might include: public broadband access, sustainability infrastructure, transportation improvements, or health care access in the College Park, Prince George's, or Maryland communities. Lead instructor Ken Ulman,'97 is the former Howard County Executive who now heads the University's efforts to transform College Park into one of the most innovative university towns in the country. For permission to register, email bsos-ugdean@umd.edu with your name, UID and brief statement of why this course is of interest of you.

0101	Samantha O'Neil, Kenneth Ulman	Seats (Total: 20)
	W 4:00pm - 6:30pm	CHT 2113

BSOS388M **Behavioral and Social Sciences Special Topics; Social Science Independent Research**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Advanced special topics course focusing on an interdisciplinary topic related to the Behavioral and Social Sciences.

Contact department for information to register for this course.

BSOS388Q **Behavioral and Social Sciences Special Topics; Cesar Directed Study**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Advanced special topics course focusing on an interdisciplinary topic related to the Behavioral and Social Sciences.

Contact department for information to register for this course.

BSOS388T **Behavioral and Social Sciences Special Topics; BSOS Sustainability Task Force**

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

Advanced special topics course focusing on an interdisciplinary topic related to the Behavioral and Social Sciences.

Restriction: BSOS Majors Only.

0101	Evan Ellicott	Seats (Total: 20)
	M 4:00pm - 6:00pm	TYD 3100

BSOS399 **Directed Study in Behavioral and Social Sciences**

Credits: 1-6

Grading Method: Regular, Pass-Fail, Audit

Guidance for the advanced student capable of interdisciplinary study on special projects under the supervision of the Assistant Dean for Student Affairs.

Contact department for information to register for this course.

BSOS399P **Directed Study in Behavioral and Social Sciences; Undergraduate Research**

(Perm req)

Credits: 1-6

Grading Method: Regular

Guidance for the advanced student capable of interdisciplinary study on special projects under the supervision of the Assistant Dean for Student Affairs.

Contact department for information to register for this course.

BSOS399T **Directed Study in Behavioral and Social Sciences; Civicus Teaching Assistant**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Guidance for the advanced student capable of interdisciplinary study on special projects under the supervision of the Assistant Dean for Student Affairs.

Contact department for information to register for this course.

BSOS448C **Teaching Assistant Practicum; Civicus**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Supervised practicum for teaching assistants for BSOS/UNIV courses.

Contact department for information to register for this course.

BSOS448D **Teaching Assistant Practicum**

(Perm req)

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

Supervised practicum for teaching assistants for BSOS/UNIV courses.

Contact department for information to register for this course.

BSOS448I **Teaching Assistant Practicum; Internship**

(Perm req)

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

Supervised practicum for teaching assistants for BSOS/UNIV courses.

Contact department for information to register for this course.

BSOS448T **Teaching Assistant Practicum; (UNIV)**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Supervised practicum for teaching assistants for BSOS/UNIV courses.

Contact department for information to register for this course.

BSOS630 **Programming for the Social Sciences: Statistical Computing using R**

Credits: 1

Grading Method: Regular, Audit

Prerequisite: Students must have completed a least one college-level statistics course. Restriction: Must be enrolled in a BSOS graduate program; or permission of instructor. Also offered as: BSOS330. Credit only granted for: BSOS330, BSOS630.

R is an open-source programming language, specialized for statistical computing, and provides a variety of statistical and graphical techniques that might be relevant for any BSOS program, such descriptive statistics, linear and non-linear regression, text mining, image processing. The R language is increasingly often employed in advanced statistics and data analytics, offering a wide range of application packages for effective programming. This course introduces the R language and several powerful packages in form of lectures, worked-out examples, and group exercises.

Non-BSOS majors should contact fklein@umd.edu for permission to register.

0101	Franz Klein	Seats (Total: 3)
	M 4:00pm - 6:00pm	LEF 0229

BSST Terrorism Studies Fall 2018

BSST240 **Understanding The Principles and Perils of CBRN Weapons**

Credits: 3 Grading Method: Regular General Education: DSNL (if taken with BSST241), DSNS

Additional information: If taken in the same term as BSST241 these courses will count for General Education Natural Sciences Lab.

Explores the 'dark side' of scientific applications. Students will gain an understanding of CBRN Weapons, through the exploration of the scientific method, and certain fundamental principles of chemistry, biology, and physics. Students will also learn how to test hypotheses, use basic statistics, interpret results, and apply their new knowledge through discussions of practical applications in the domains of public health, emergency management, epidemiology, and threat assessment. Bringing these fields together in one class will allow students to better understand the use of and threat from CBRN weapons in terrorism.

FC01	Steve Sin, Rebecca Earnhardt	Seats (Total: 20)
	TuTh 4:30pm - 5:45pm	SQH 1123
	Restricted to students in Freshmen Connection.	

BSST241 **Understanding the Principles and Perils of CBRN Weapons (Lab)**

Credits: 1 Grading Method: Regular

Corequisite: BSST240. Additional information: This is an optional 1-credit lab course offered in coordination with BSST240. If taken in the same term as BSST240 these courses will count for General Education Natural Sciences Lab.

An exploration of the threat of Chemical, Biological, Radiological, and Nuclear (CBRN) weapons aimed to provide students with a basic, multidisciplinary, natural science foundation in chemistry, biology, and physics.

FC01	Steve Sin, Rebecca Earnhardt	Seats (Total: 20)	
	F 10:00am - 12:30pm	ATL 1410	Lab
	Restricted to students in Freshmen Connection.		

BSST288R **Special Topics in Terrorism Studies; Special Topics in Terrorism Studies: Global Terrorism in the Twentieth and Twenty-First Century**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

A special topics course for students in the Global Terrorism Minor program. Topics that may be offered are Psychology of Terrorism; Development of Counterterrorism Policies and Programs; Terrorism and Popular Culture; Terrorism and the Media; International Perspective on Terrorism and Counterterrorism (Education Abroad); The Evolution of Hezbollah; Terrorism and Small Wars; Political Islam in the West.

0101	Howard Smead	Seats (Total: 5)	
	M 4:00pm - 6:30pm	TLF 1103	
	To obtain permission to register for this course, send a copy of your resume and unofficial transcript toeducation@start.umd.edu. Include BSST288R in the subject line of your email.		

BSST327 **Introduction to Terrorism and the Terrorist Threat**

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

Recommended: It is recommended that BSST330 be taken in the same semester as as BSST329. Restriction: Restricted to students enrolled in the Global Terrorism Minor (#BS07). Credit only granted for: BSST327 OR BSST399K. Formerly: BSST399K.

This course focuses on bringing current events and policy issues related to terrorism and counterterrorism, as they are discussed in mass media, into the dialogue with academic theories and research. Through a discussion-based seminar, students will bring current, terrorism-related events to classroom discussion, where they will consider the media-framed current events in relation to academic research. Students will be continually challenged to draw connections between terrorism-related events in the news and relevant academic research.

0101	William Braniff	Seats (Total: 35)	
	Th 3:30pm - 5:10pm	ATL 2428	

BSST330 **Terrorist Motivations and Behaviors**

Credits: 3

Grading Method: Regular

Restriction: Must be in the Global Terrorism minor; or special permission available for students in other Global Studies minors.

Explores theories explaining the formation of terrorist groups and the motivations behind terrorist behavior, building upon theories from social psychology, sociology, political science, criminology, and history.

0101	Amy Pate M 4:30pm - 7:15pm	Seats (Total: 40) HJP 2242	
	Restricted to students in the Global Terrorism Minor(#BS07); to obtain permission email education@start.umd.edu.		
0201	Amy Pate M 4:30pm - 7:15pm	Seats (Total: 5) HJP 2242	
	Restricted to students in one of the following minors: International Development & Conflict Mgmt minor (#BS02), Global Poverty minor (#AG06), or International Engineering minor (#EN01); to obtain permission email education@start.umd.edu with your name and which Global Studies program in which you are enrolled.		

BSST334 **States of Emergency**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, SCIS

Students will explore the manner in which crises unfold from the perspective of a variety of emergency response disciplines, including: emergency management, law enforcement, intelligence analysis, cyber analysis, risk communication, health and human services, and emergency psychiatry/psychology. Students will participate in a semester-long simulation of an unfolding terrorist attack.

0101	Joseph Oudin Th 12:30pm - 1:45pm Tu 12:30pm - 1:45pm	Seats (Total: 40) ESJ 1202 ONLINE	 Discussion
0102	Joseph Oudin Th 12:30pm - 1:45pm Tu 2:00pm - 3:15pm	Seats (Total: 40) ESJ 1202 ONLINE	 Discussion
0103	Joseph Oudin Th 12:30pm - 1:45pm Tu 3:30pm - 4:45pm	Seats (Total: 40) ESJ 1202 ONLINE	 Discussion

BSST335 **Innovations in Countering Violent Extremism**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DVCC

Credit only granted for: BSST335 or BSST338V. Formerly: BSST338V.

Develop solutions to community-based radicalization through a blend of entrepreneurial, Design Thinking strategies and terrorist disengagement theories. Students will design original programs targeting real-world, at-risk communities and present their programs to a panel of experts.

0101	Thomas Guarrieri F 1:30pm - 4:15pm	Seats (Total: 31) HJP 2242
0201	Thomas Guarrieri F 1:30pm - 4:15pm	Seats (Total: 5) HJP 2242

BSST337 Ideology and Social Conditions in the Making of Terrorism

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: BSST338G or BSST337. Formerly: BSST338G.

This class focuses on the relations of ideology with social conditions in the historical context of the Middle East and North Africa in order to explain the process of the rise and domination of Islamist extremism and suicide terrorism as a dominant oppositional discourse in the region. Resting on a cognitive conception of ideology, this class focuses on the process in which ideological discourses shape the making of the terrorist mind.

0101	Mansoor Moaddel TuTh 1:00pm - 2:15pm	Seats (Total: 20) TWS 3252

BSST338C Special Topics in Terrorism Studies; The Hostage Negotiator: Crisis Communication Skills

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

A special topics course for students in the Global Terrorism Minor program. Topics that may be offered are Psychology of Terrorism; Development of Counterterrorism Policies and Programs; Terrorism and Popular Culture; Terrorism and the Media; International Perspective on Terrorism and Counterterrorism (Education Abroad); The Evolution of Hezbollah; Terrorism and Small Wars; Political Islam in the West.

SG91	Edward Pallas Tu 2:00pm - 4:30pm *Restricted to CCJS students at Shady Grove.*	Seats (Total: 30) BLD3 3242

BSST338F **Special Topics in Terrorism Studies; Media in War and Crisis**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

A special topics course for students in the Global Terrorism Minor program. Topics that may be offered are Psychology of Terrorism; Development of Counterterrorism Policies and Programs; Terrorism and Popular Culture; Terrorism and the Media; International Perspective on Terrorism and Counterterrorism (Education Abroad); The Evolution of Hezbollah; Terrorism and Small Wars; Political Islam in the West.

Contact department for information to register for this course.

BSST338I **Special Topics in Terrorism Studies; Arab-Israeli Relations**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

A special topics course for students in the Global Terrorism Minor program. Topics that may be offered are Psychology of Terrorism; Development of Counterterrorism Policies and Programs; Terrorism and Popular Culture; Terrorism and the Media; International Perspective on Terrorism and Counterterrorism (Education Abroad); The Evolution of Hezbollah; Terrorism and Small Wars; Political Islam in the West.

Contact department for information to register for this course.

BSST338N **Special Topics in Terrorism Studies; Arms Control in the Nuclear Realm**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

A special topics course for students in the Global Terrorism Minor program. Topics that may be offered are Psychology of Terrorism; Development of Counterterrorism Policies and Programs; Terrorism and Popular Culture; Terrorism and the Media; International Perspective on Terrorism and Counterterrorism (Education Abroad); The Evolution of Hezbollah; Terrorism and Small Wars; Political Islam in the West.

Contact department for information to register for this course.

BSST338R **Special Topics in Terrorism Studies; Peace and Conflict Honors Seminar II: Regional Conflicts**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

A special topics course for students in the Global Terrorism Minor program. Topics that may be offered are Psychology of Terrorism; Development of Counterterrorism Policies and Programs; Terrorism and Popular Culture; Terrorism and the Media; International Perspective on Terrorism and Counterterrorism (Education Abroad); The Evolution of Hezbollah; Terrorism and Small Wars; Political Islam in the West.

Contact department for information to register for this course.

BSST340 **Oral Communication for National Security Careers**

Credits: 3 Grading Method: Regular General Education: FSOC

Credit only granted for: BSST340 or BSST338E. Formerly: BSST338E.

Students will discuss perspectives on strategic communication and national security, while discussing and practicing public speaking skills and developing proficiency in three genres of security-related briefings. Students will work with the technical, scientific, and/or specialized data, vocabularies, processes, and products of the academic disciplines and/or fields of expertise relevant to national and international security careers.

FC01	Holly Roberts	Seats (Total: 25)
	MW 6:00pm - 7:15pm	KNI 1103
	Restricted to students in Freshmen Connection.	

BSST386 **Experiential Learning in Terrorism Studies**

(Perm req)

Credits: 1-5 Grading Method: Regular, Pass-Fail

Repeatable to 10 credits.

This course will supplement student's experiential learning experience, or internship in the field of terrorism studies and homeland security with guided reflection on their experiences.

0101	Elizabeth Wasden	Seats (Total: 35)
	Class time/details on ELMs	ONLINE
	Registration by Departmental Permission Only	

BSST399C **Individual Study in Terrorism Studies; Community Resilience Engagement and Dialogue Fellowship Career Development Part 4**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

An independent study course for students in the Global Terrorism Minor program.

Restricted to students in the Community, Resilience, Engagement, and Dialogue Career Development Program.

Contact department for information to register for this course.

BSST399G **Individual Study in Terrorism Studies; Independent Readings in Terrorism**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

An independent study course for students in the Global Terrorism Minor program.

0101	Elizabeth Wasden Contact instructor or department for details.	Seats (Total: 1)

BSST399T **Individual Study in Terrorism Studies; Teaching Terrorism**

(Perm req)

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

An independent study course for students in the Global Terrorism Minor program.

0201	Elizabeth Wasden Contact instructor or department for details.	Seats (Total: 3)
0301	Elizabeth Wasden Contact instructor or department for details.	Seats (Total: 3)
0401	Elizabeth Wasden Contact instructor or department for details.	Seats (Total: 6)
0501	Elizabeth Wasden Contact instructor or department for details.	Seats (Total: 2)

BSST630 **Motivations and Intents of Terrorists and Terrorist Groups**

Credits: 3

Grading Method: Regular,
Audit

Restriction: Must be in the Terrorism Analysis Graduate Certificate Program. Credit only granted for: BSOS630 or BSST630. Formerly: BSOS630.

Examines motivations for terrorism from an interdisciplinary perspective, with emphasis on political and applied social psychological perspective. Topics may include: defining terrorism; preconditions; recruitment; domestic and international terrorism; and case studies and analysis of terrorist organizations.

ST01	Marcus Boyd **Meets August 27, 2018 - December 10, 2018** W 7:00pm - 9:30pm Class time/details on ELMs	Seats (Total: 35) ONLINE ONLINE

BSST632 **Development of Counterterrorism Policies and Programs**

(Perm req)

Credits: 3

Grading Method: Regular,
Audit

Restriction: Must be in the Terrorism Analysis Graduate Certificate Program; or permission of department. Credit only granted for: BSOS632 or BSST632. Formerly: BSOS632.

Addresses the formulation, adoption, effectiveness, impacts, and afterlives of counterterrorism policies and programs.

Admission to Terrorism Analysis Graduate Certificate Program required.

Contact department for information to register for this course.

BSST634 **Legal and Criminal Approaches to Counterterrorism**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in the Graduate Certificate in Terrorism Analysis; or permission of instructor.

The United States and many of her allies have challenged long-standing legal boundaries in their effort to combat terrorism. This course examines these responses, including: increased criminalization of terrorism related activities; aggressive criminal prosecutions; detention of suspected terrorists indefinitely in far-off prisons; implementation of enhanced interrogation techniques; launch of drones to kill alleged terrorists, even U.S. citizens; and deployment of a vast system of mass surveillance.

ST01	Jeffrey Davis	Seats (Total: 30)
	M 7:00pm - 9:30pm	ONLINE

BSST635 **Countering Violent Extremism: Policy and Practice**

Credits: 3 Grading Method: Regular, Audit

In recent years, the understanding of how and why individuals engage in violent extremism and terrorism has evolved and become more nuanced, as have the tools to mitigate these threats. A field of policy and practice called Countering Violent Extremism (CVE) has emerged that focuses on countering the pull of terrorist recruitment and influence by building resilience among populations vulnerable to radicalization.

ST01	Susan Szmania	Seats (Total: 30)
	Sa 11:00am - 1:30pm	ONLINE

BUAC Accounting and Information Assurance Fall 2018

Courses with the BUAC prefix are offered only for students in the MS in Accounting program.

BUAC706 **Business Ethics for Accountants and Auditors**

(Perm req) Credits: 2 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program. Credit only granted for: BUAC765 or BUAC706. Formerly: BUAC765.

Considers all facets of business ethics issues within an accounting and auditing context. Ethical theory, corporate social responsibility, and individual decision-making are considered. Some of the applied topics that may be covered in this course include, but are not limited to, intellectual property issues, corporate downsizing, outsourcing, global ethics, crises management, and employment ethics.

0501	Jeffrey Milton **Meets October 22, 2018 - December 11, 2018** MW 6:00pm - 7:50pm	Seats (Total: 0) VMH 1505
0502	James Lager **Meets October 22, 2018 - December 11, 2018** TuTh 6:00pm - 7:50pm	Seats (Total: 0) VMH 1520

BUAC707 **Financial Statement Analysis for Accountants and Auditors**

(Perm req) Credits: 2 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUAC780 or BUAC707. Formerly: BUAC780.

Provides students with the tools to conduct a financial statement analysis, which is part of an overall business analysis. This involves understanding and using the information that financial statements are communicating to users.

0501	Nicholas Seybert **Meets August 27, 2018 - October 15, 2018** TuTh 2:00pm - 3:50pm *For MS in Accounting students only.*	Seats (Total: 0) VMH 1330
0502	Nicholas Seybert **Meets August 27, 2018 - October 15, 2018** TuTh 4:00pm - 5:50pm *For MS in Accounting students only.*	Seats (Total: 0) VMH 1330

BUAC710 **Advanced Managerial Accounting and Control Systems**

(Perm req)

Credits: 2 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUAC782 or BUAC710. Formerly: BUAC782.

Focuses on topics that emphasize the role of managerial accounting in a firm's overall management planning and control structure. A key concern is to show how effective organizations ensure that the parts of the organization work together to create the whole, and how the sum of the parts, through synergy, can indeed be greater then the whole.

0501	Tharinda W Ranasinghe **Meets October 22, 2018 - December 11, 2018** TuTh 2:00pm - 3:50pm *For MS in Accounting students only.*	Seats (Total: 0) VMH 1528
0502	Tharinda W Ranasinghe **Meets October 22, 2018 - December 11, 2018** TuTh 10:00am - 11:50am *For MS in Accounting students only.*	Seats (Total: 0) VMH 1528

BUAC712 **Business Communications for Accountants and Auditors**

(Perm req)

Credits: 2 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUAC784 or BUAC712. Formerly: BUAC784.

Focuses on the art of communication and its effects on people, organizations, and other stakeholders. The course will focus on two aspects of business communications: persuasion and effective presentations. The objective for the persuasion sessions is to have students improve upon their day-to-day oral business communications skills. This will be accomplished as participants learn to tailor each communication to the person or people with whom they are speaking.

0501	Eugene Cantor **Meets August 27, 2018 - October 15, 2018** MW 8:00am - 9:50am *For MS in Accounting students only.*	Seats (Total: 0) VMH 1330

0502	Eugene Cantor **Meets August 27, 2018 - October 15, 2018** MW 12:00pm - 1:50pm *For MS in Accounting students only.*	Seats (Total: 0) VMH 1528

BUAC714 **Forensic Accounting/Auditing**

(Perm req)

Credits: 2 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUAC792 or BUAC714. Formerly: BUAC792.

Provides a theoretical background and practical application of fraud examinations and corporate investigations. Fraud prevention, detection, investigation, and related matters such as courtroom procedures will be included. Also considered are topics such as FCPA and securities fraud. A wide variety of teaching tools are used.

0501	David Weber **Meets August 27, 2018 - October 15, 2018** TuTh 6:00pm - 7:50pm *For MS in Accounting students only*	Seats (Total: 0) VMH 1520
0502	David Hilton **Meets August 27, 2018 - October 15, 2018** MW 6:00pm - 7:50pm *For MS in Accounting students only*	Seats (Total: 0) VMH 1505

BUAC732 **Intermediate Accounting II**

(Perm req)

Credits: 2 Grading Method: Regular

Prerequisite: BUAC731. Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUAC758M or BUAC732. Formerly: BUAC758M.

Continuing the study of accounting information covering accounting principles found in US GAAP and IFRS as they apply to cash and receivables, inventory valuation, acquisition and disposition of plant, property and equipment, depreciation, impairments and depletion, intangible assets, current liabilities and contingencies, long-term liabilities, and stockholders equity.

0501	Stephen Brown	Seats (Total: 0)
	Meets October 22, 2018 - December 11, 2018	
	MW 12:00pm - 1:50pm	VMH 1505
	For MS in Accounting students only.	

BUAC743 **Financial Statement Analysis**

Credits: 2 Grading Method: Regular

Prerequisite: BUSI610. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)) ; or permission of BMGT-Robert H. Smith School of Business.

Provides students with the tools to conduct a financial statement analysis, which is part of an overall business analysis. This involves understanding and using the information that financial statements are communicating to users.

BA01	Brent Solomon	Seats (Total: 50)
	Meets October 22, 2018 - December 11, 2018	
	M 6:25pm - 10:00pm	BA 103
DC06	Nicholas Seybert	Seats (Total: 50)
	Meets August 25, 2018 - October 13, 2018	
	Sa 8:30am - 1:00pm	DC C1
	Class time/details on ELMs	ONLINE
	Meets 8/25, 9/8, 9/22, 10/6, Final 10/13. Blended.	

BUAC758A **Special Topics in Accounting and Information Assurance; Governance and Accounting for Not-for-Profits and Socially Responsible Entities**

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in accounting and information assurance.

BA01	Rebecca Martin	Seats (Total: 50)
	Meets August 27, 2018 - October 15, 2018	
	Th 6:25pm - 10:00pm	BA 101

BUAC758D **Special Topics in Accounting and Information Assurance; Tax VI: State and Local Taxation**

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in accounting and information assurance.

0501	Samuel Handwerger	Seats (Total: 0)
	Meets October 22, 2018 - December 11, 2018	
	MW 12:00pm - 1:50pm	VMH 1511
	For MS in Accounting students only.	

BUAC758H **Special Topics in Accounting and Information Assurance; Applied Research for Accounting & Auditing**

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in accounting and information assurance.

0501	James McKinney	Seats (Total: 0)
	Meets October 22, 2018 - December 11, 2018	
	TuTh 10:00am - 11:50am	VMH 1511
	For MS in Accounting students only.	

BUAC758J **Special Topics in Accounting and Information Assurance; Enterprise Risk Management**

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in accounting and information assurance.

0501	Alan Siegfried, Elizabeth Folsom	Seats (Total: 0)
	Meets August 27, 2018 - October 15, 2018	
	MW 6:00pm - 7:50pm	VMH 1528
	For MS in Accounting students only.	

BUAC758N **Special Topics in Accounting and Information Assurance; Estates, Trusts, and Personal Finance Planning**

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in accounting and information assurance.

0501	Thomas Kelley **Meets August 27, 2018 - October 15, 2018** TuTh 8:00am - 9:50am *For MS in Accounting students only.*	Seats (Total: 0) VMH 1528

BUAC758Q **Special Topics in Accounting and Information Assurance; Research on Accounting and Economic Aspects of Cybersecurity**

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in accounting and information assurance.

0501	Lawrence Gordon **Meets October 22, 2018 - December 11, 2018** TuTh 10:00am - 11:50am *For MS in Accounting students only.*	Seats (Total: 35) VMH 2505

BUAC758S **Special Topics in Accounting and Information Assurance; Systems for Data Analysis**

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in accounting and information assurance.

0501	Woei-Jyh Lee **Meets October 22, 2018 - December 11, 2018** MW 12:00pm - 1:50pm *For MS in Accounting students only.*	Seats (Total: 0) VMH 1528
0502	Woei-Jyh Lee **Meets October 22, 2018 - December 11, 2018** MW 4:00pm - 5:50pm *For MS in Accounting students only.*	Seats (Total: 0) VMH 1528

BUAC758U **Special Topics in Accounting and Information Assurance; Advanced Accounting**

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in accounting and information assurance.

0501	Samuel Handwerger	Seats (Total: 0)
	Meets August 27, 2018 - October 15, 2018	
	TuTh 8:00pm - 9:50pm	VMH 1528
	For MS in Accounting students only.	

BUAC758V **Special Topics in Accounting and Information Assurance; Taxation of Corporations and Other Entitites**

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in accounting and information assurance.

0501	Leslie Mostow	Seats (Total: 0)
	Meets August 27, 2018 - October 15, 2018	
	MW 2:00pm - 3:50pm	VMH 1528
	For MS in Accounting students only.	

BUAC759 **Independent Study in Accounting and Information Assurance**

(Perm req)

Credits: 1-6 Grading Method: Regular

Independent study for masters students in accounting and information assurance.

Contact department for information to register for this course.

BUDT Decision and Information Technologies Fall 2018

BUDT732 **Decision Analytics**

Credits: 2 Grading Method: Regular

Prerequisite: BUSI630. Credit only granted for: BMGT732 or BUDT732. Formerly: BMGT732.

Analytical modeling for managerial decisions using a spreadsheet environment. Includes linear and nonlinear optimization models, decision making under uncertainty and simulation models.

BA01	Robert Hoffman **Meets August 27, 2018 - October 15, 2018** Tu 6:25pm - 10:00pm	Seats (Total: 50) BA 103
DC01	Maria Bardossy **Meets October 22, 2018 - December 11, 2018** W 6:25pm - 10:00pm Contact instructor or department for details.	Seats (Total: 50) DC C1

BUDT733 **Data Mining and Predictive Analytics**

Credits: 2 Grading Method: Regular

Prerequisite: BUSI630. Credit only granted for: BMGT733 or BUDT733. Formerly: BMGT733.

Data mining techniques and their use in business decision making. A hands-on course that provides an understanding of the key methods of data visualization, exploration, classification, prediction, time series forecasting, and clustering.

DC01	Inbal Shenberger **Meets August 27, 2018 - October 15, 2018** M 6:25pm - 10:00pm	Seats (Total: 50) DC C2
DC06	Jessica Clark **Meets October 20, 2018 - December 8, 2018** Sa 8:30am - 1:00pm Class time/details on ELMs *Meets 10/20, 11/3, 11/17, 12/1, Final 12/8. Blended.*	Seats (Total: 50) DC C2 ONLINE

BUDT758A **Special Topics in Decision, Operations and Information Technologies; Business Communication**

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in decision, operations and information technologies.

0501	Tricia Homer **Meets October 22, 2018 - December 11, 2018** TuTh 12:00pm - 1:50pm *For MS in Business & Management students only.*	Seats (Total: 0) VMH 1520
0502	Benjamin Arendt **Meets October 22, 2018 - December 11, 2018** W 6:25pm - 10:00pm Contact instructor or department for details. *For MS in Business Analytics students only.*	Seats (Total: 0) VMH 1528
0503	Jacqueline Pearce Garrett **Meets October 22, 2018 - December 11, 2018** M 6:25pm - 10:00pm *For MS in Business Analytics students only.*	Seats (Total: 0) VMH 1418
0504	Cary Gillett **Meets October 22, 2018 - December 11, 2018** W 6:25pm - 10:00pm Contact instructor or department for details. *For MS in Business Analytics students only.*	Seats (Total: 0) VMH 1418

BUDT758B **Special Topics in Decision, Operations and Information Technologies; Big Data and Artificial Intelligence for Business**

Credits: 3 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in decision, operations and information technologies.

0501	Guodong Gao **Meets August 27, 2018 - December 11, 2018** TuTh 11:00am - 12:15pm *For MS in Information Systems students only. This course requires a relatively powerful laptop with at least 8 GB of memory and 30 GB of free space on hard drive.*	Seats (Total: 45) VMH 1333

0502	Guodong Gao **Meets August 27, 2018 - December 11, 2018** TuTh 6:30pm - 7:45pm *For MS in Information Systems students only. This course requires a relatively powerful laptop with at least 8 GB of memory and 30 GB of free space on hard drive.*	Seats (Total: 45) VMH 1505
0503	Guodong Gao **Meets August 27, 2018 - December 11, 2018** TuTh 8:00pm - 9:15pm *For MS in Information Systems students only. This course requires a relatively powerful laptop with at least 8 GB of memory and 30 GB of free space on hard drive.*	Seats (Total: 45) VMH 1505

BUDT758C **Special Topics in Decision, Operations and Information Technologies; Big Data and Artificial Intelligence for Business**

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in decision, operations and information technologies.

DC01	Gorkem Ozer **Meets August 27, 2018 - October 15, 2018** Tu 6:25pm - 10:00pm	Seats (Total: 50) DC C1

BUDT758F **Special Topics in Decision, Operations and Information Technologies; Google Online Analytics Challenge**

(Perm req)

Credits: 3 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in decision, operations and information technologies.

0501	Jessica Clark **Meets August 27, 2018 - December 11, 2018** TuTh 5:00pm - 6:15pm *For MS in Business Analytics students only.*	Seats (Total: 0) VMH 1336

0502	Jessica Clark	Seats (Total: 0)
	Meets August 27, 2018 - December 11, 2018	
	TuTh 3:30pm - 4:45pm	VMH 1336
	For MS in Business Analytics students only.	

BUDT758I **Special Topics in Decision, Operations and Information Technologies; Applied Finance Information Systems**

Credits: 3 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in decision, operations and information technologies.

0501	Leonard Mills	Seats (Total: 74)
	Meets August 27, 2018 - December 11, 2018	
	M 5:00pm - 7:40pm	VMH 1333
	For MS in Information Systems students only.	

BUDT758J **Special Topics in Decision, Operations and Information Technologies; Management of Information Systems**

Credits: 3 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in decision, operations and information technologies.

0501	Barnet Corwin	Seats (Total: 45)
	Meets August 27, 2018 - December 11, 2018	
	W 5:00pm - 7:40pm	VMH 1333
	For MS in Information Systems students only.	

BUDT758L **Special Topics in Decision, Operations and Information Technologies; Price Optimization and Revenue Management**

(Perm req)

Credits: 3 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in decision, operations and information technologies.

0501	Michael Ball **Meets August 27, 2018 - December 11, 2018** TuTh 12:30pm - 1:45pm *For MS in Business Analytics students only.*	Seats (Total: 0) VMH 1333

BUDT758M **Special Topics in Decision, Operations and Information Technologies; Healthcare Information Systems**

Credits: 3 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in decision, operations and information technologies.

0501	Neil Sehgal **Meets August 27, 2018 - December 11, 2018** MW 8:00pm - 9:15pm *For MS in Information Systems students only.*	Seats (Total: 35) VMH 1415

BUDT758P **Special Topics in Decision, Operations and Information Technologies; Decision Analytics**

Credits: 3 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in decision, operations and information technologies.

0502	Ilya Ryzhov **Meets August 27, 2018 - December 11, 2018** TuTh 9:30am - 10:45am *For MS in Information Systems students only.*	Seats (Total: 45) VMH 1333
0503	Raghu Raghavan **Meets August 27, 2018 - December 11, 2018** TuTh 6:30pm - 7:45pm *For MS in Business Analytics students only.*	Seats (Total: 0) VMH 1511

0504	Raghu Raghavan **Meets August 27, 2018 - December 11, 2018** TuTh 8:00pm - 9:15pm *For MS in Business Analytics students only.*	Seats (Total: 0) VMH 1511

BUDT758R **Special Topics in Decision, Operations and Information Technologies; Operations and Supply Chain Strategy**

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in decision, operations and information technologies.

GS01	Zhi-Long Chen **Meets October 22, 2018 - December 11, 2018** Tu 6:25pm - 10:00pm	Seats (Total: 45) BLD2 2032

BUDT758W **Special Topics in Decision, Operations and Information Technologies; Capstone Project in Operations Analytics**

(Perm req)

Credits: 3 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in decision, operations and information technologies.

0501	Suresh Acharya **Meets August 27, 2018 - December 11, 2018** M 7:00pm - 9:40pm *For MS in Business Analytics students only.*	Seats (Total: 0) VMH 1202
0502	Arnold Greenland **Meets August 27, 2018 - December 11, 2018** W 7:00pm - 9:40pm *For MS in Business Analytics students only.*	Seats (Total: 0) VMH 1202

BUDT758Y **Special Topics in Decision, Operations and Information Technologies; Database Management Systems**

(Perm req)

Credits: 3 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in decision, operations and information technologies.

0501	Woei-Jyh Lee **Meets August 27, 2018 - December 11, 2018** TuTh 3:30pm - 4:45pm *For MS in Business Analytics students only.*	Seats (Total: 0) VMH 1505
0502	Woei-Jyh Lee **Meets August 27, 2018 - December 11, 2018** TuTh 5:00pm - 6:15pm *For MS in Business Analytics students only..*	Seats (Total: 0) VMH 1505
0503	Woei-Jyh Lee **Meets August 27, 2018 - December 11, 2018** MW 12:30pm - 1:45pm *For MS in Information Systems students only.*	Seats (Total: 0) VMH 1333
0504	Woei-Jyh Lee **Meets August 27, 2018 - December 11, 2018** MW 3:30pm - 4:45pm *For MS in Information Systems students only.*	Seats (Total: 0) VMH 1333

BUDT758Z **Special Topics in Decision, Operations and Information Technologies; Data Networks and Infrastructures**

(Perm req)

Credits: 3 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in decision, operations and information technologies.

0501	Krishnan Balakrishnan **Meets August 27, 2018 - December 11, 2018** M 7:00pm - 9:40pm *For MS in Information Systems students only.*	Seats (Total: 0) VMH 1330

0502	Krishnan Balakrishnan	Seats (Total: 0)
	Meets August 27, 2018 - December 11, 2018	
	W 7:00pm - 9:40pm	VMH 1330
	For MS in Information Systems students only.	

BUDT759 **Independent Study in Decision and Information Technologies**

(Perm req)

Credits: 1-6 Grading Method: Regular

Independent study for masters students in decision and information technologies.

Contact department for information to register for this course.

BUDT775 **Pricing and Revenue Management**

Credits: 2 Grading Method: Regular

Prerequisite: BUSI630. Restriction: Must be in a major in BMGT-Robert H. Smith School of Business; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUDT758D or BUDT775. Formerly: BUDT758D.

Specialized course on pricing and revenue management (PRM) that provide students with tools and principles, drawn from several disciplines (Operations, Microeconomics, Decision Modeling, Statistics, Marketing, IS) to make effective pricing decisions. Topics covered include economics of pricing, strategy and tactics of PRM, pricing optimization, differentiated pricing, dynamic pricing, mark-down pricing, legal and ethical issues in models/methods used in making effective PRM decisions and managerial or organizational factors that hold the key to success in execution of PRM.

DC01	Yi Xu	Seats (Total: 45)
	Meets October 22, 2018 - December 11, 2018	
	M 6:25pm - 10:00pm	DC C1

BUFN Finance Fall 2018

Courses with the BUFN prefix are offered only for students in the Master of Finance and Master of Quantitative Finance programs.

BUFN610 **Financial Management**

(Perm req)

Credits: 2 Grading Method: Regular

Restriction: Permission of BMGT-Robert H. Smith School of Business; or must be in Business and Management (Master's) program. Credit only granted for: BUSI640, BUFN610, or BMGT610.

Focuses on the valuation of the real assets of firms as well as the valuation of stocks and bonds, the primary financial assets in an economy. While details vary, the conceptual foundations of valuation boil down to three themes: time value of money, no-arbitrage, and systematic risk.

0502	Liu Yang **Meets August 27, 2018 - October 15, 2018** TuTh 12:00pm - 1:50pm *For Master of Quantitative Finance students only.*	Seats (Total: 0) VMH 1330
0503	Liu Yang **Meets August 27, 2018 - October 15, 2018** TuTh 10:00am - 11:50am *For Master of Finance students only.*	Seats (Total: 0) VMH 1330

BUFN620 **Capital Markets**

(Perm req)

Credits: 2 Grading Method: Regular

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)) ; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUFN740 or BUFN620. Formerly: BUFN740.

Designed to deepen the foundations necessary to finance focused students, especially those intending to specialize in the quantitative areas of finance including investments, fixed income, and financial engineering.

0501	Nagpurnanand Prabhala, Sarah Kroncke, Geoffrey Tate **Meets October 22, 2018 - December 11, 2018** MW 2:00pm - 3:50pm *For Master of Finance students only.*	Seats (Total: 0) VMH 1528

BUFN640 **Financial Econometrics I**

(Perm req)

Credits: 2 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUFN758N of BUFN640. Formerly: BUFN758N.

In this course we study standard techniques used in the econometric analysis of financial data and discuss the underlying techniques and focus on the understanding and interpretation.

0501	Alberto Rossi **Meets August 27, 2018 - October 15, 2018** M 6:25pm - 10:00pm *For Master of Finance students only.*	Seats (Total: 0) VMH 1511
0502	Alberto Rossi **Meets August 27, 2018 - October 15, 2018** Tu 6:25pm - 10:00pm *For Master of Quantitative Finance students only.*	Seats (Total: 0) VMH 1333

BUFN650 **Financial Econometrics II**

(Perm req)

Credits: 2 Grading Method: Regular

Prerequisite: BUFN640. Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUFN758O or BUFN650. Formerly: BUFN758O.

A hands-on and application-oriented short course on data management and financial modeling. It introduces students to basic data management techniques and a variety of analytical models used in finance.

0501	Alberto Rossi **Meets October 22, 2018 - December 11, 2018** M 6:25pm - 10:00pm *For Master of Quantitative Finance students only.*	Seats (Total: 0) VMH 1511
0502	Alberto Rossi **Meets October 22, 2018 - December 11, 2018** Tu 6:25pm - 10:00pm *For Master of Finance students only.*	Seats (Total: 0) VMH 1333

BUFN670 **Financial Mathematics**

(Perm req)

Credits: 2 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business.

We will cover basic concepts in discrete-time and continuous time finance, including stochastic calculus and treatment of jumps, conditional expectations, Feyman-Kac theorem, Girsanov theorem, risk-neutral pricing of derivatives (forwards, futures, bonds,options), convex optimization. The focus is on financial models, applications, and implementation.

0501	Gurdip Bakshi **Meets October 22, 2018 - December 11, 2018** M 6:25pm - 10:00pm *For Master of Quantitative Finance students only.*	Seats (Total: 0) VMH 1528

BUFN738 **Investment Fund Management**

(Perm req)

Credits: 3 Grading Method: Regular

Provides second-year Master in Business Administration students with th opportunity to apply the skills learned in finance classes to actual investment decisions through management of an investment fund.

DC06	Kenneth Fuller **Meets August 25, 2018 - December 8, 2018** TBA *Meets 8/25, 9/8, 9/22, 10/6, 10/20, 11/3, 11/17, 12/1, 12/8.*	Seats (Total: 50) DC C5

BUFN740 **Capital Markets**

Credits: 2 Grading Method: Regular

Prerequisite: BUSI640. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUFN740 or BUFN620.

Designed to deepen the foundations necessary to finance focused students, especially those intending to specialize in the quantitative areas of finance including investments, fixed income, and financial engineering.

BA01	Sarah Kroncke, Nagpurnanand Prabhala, Rajeev Bhattacharya **Meets August 27, 2018 - October 15, 2018** M 6:25pm - 10:00pm	Seats (Total: 50) BA 103

DC01	Claudia Moise **Meets August 27, 2018 - October 15, 2018** Th 6:25pm - 10:00pm	Seats (Total: 50) DC C1
DC06	Ceyed Baiju **Meets August 25, 2018 - October 13, 2018** Sa 2:00pm - 6:30pm Class time/details on ELMs *Meets 8/25, 9/8, 9/22, 10/6, Final 10/13. Blended.*	Seats (Total: 50) DC C1 ONLINE

BUFN741 **Advanced Capital Markets**

(Perm req)

Credits: 2 Grading Method: Regular

Prerequisite: BUFN620; or permission of BMGT-Robert H. Smith School of Business. Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUFN758P or BUFN741. Formerly: BUFN758P.

This course covers modern theories and techniques for investments and asset pricing. The main topics covered are: portfolio theory, pricing models, market efficiency, fixed income investment, forwards and futures, and options.

0501	Rajeev Bhattacharya **Meets October 22, 2018 - December 11, 2018** MW 10:00am - 11:50am *For Master of Quantitative Finance students only.*	Seats (Total: 0) VMH 1528

BUFN750 **Valuation in Corporate Finance**

Credits: 2 Grading Method: Regular

Prerequisite: BUSI640. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUFN630, BUFN714, BUFN750, BUFN753, or BMGT730. Formerly: BUFN714.

An advanced topics course in Corporate Finance dealing with valuation. Main topics will be, building pro forma statements, cost of capital, using ratios and comparables to value projects and firms, dicounted cash flow valuations, WACC and APV methods of valuation and Real Option Valuations.

DC01	Ceyed Baiju **Meets August 27, 2018 - October 15, 2018** M 6:25pm - 10:00pm	Seats (Total: 50) DC C4

BUFN751 **Financial Strategy For Corporations**

Credits: 2 Grading Method: Regular

Prerequisite: BUSI640. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUFN751 or BUFN710.

An advanced course in corporate finance, focusing on the issues that firms face when they plan to raise external capital from financial markets. The focus is on the financing problems faced by mid-market to large firms and on capital raised from public markets. The forms of external finance vary from simple debt or equity to more complex securities that bundle with an element of risk management.

BA01	James Seward **Meets October 22, 2018 - December 11, 2018** Tu 6:25pm - 10:00pm Contact instructor or department for details.	Seats (Total: 45) Location: TBA
DC06	James Seward **Meets October 20, 2018 - December 8, 2018** Sa 8:30am - 1:00pm Class time/details on ELMs *Meets 10/20, 11/3, 11/17, 12/1, Final 12/8. Blended.*	Seats (Total: 45) DC C3 ONLINE
GS01	James Seward **Meets October 22, 2018 - December 11, 2018** Th 6:25pm - 10:00pm	Seats (Total: 45) BLD2 3032

BUFN752 **Financial Restructuring**

Credits: 2 Grading Method: Regular

Prerequisite: BUSI640. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUFN712, BUFN716, BUFN752 or BUFN754. Formerly: BUFN716.

Focuses on identifying ways to increase firm value through corporate restructuring. Specific topics include: mergers and tender offers, spin-offs, carve-outs, divestitures, takeover defense strategies, leveraged buy-outs, and international acquisitions. Additionally, the theory, practice and empirical evidence related to each of these topics will be covered. Emphasis will be placed on valuation analysis and strategic considerations.

0501	James Seward **Meets August 27, 2018 - October 15, 2018** MW 12:00pm - 1:50pm *For Master of Finance students only.*	Seats (Total: 0) VMH 1505
WW01	Richmond Mathews **Meets October 1, 2018 - November 5, 2018** M 4:30pm - 6:00pm Class time/details on ELMs *Synchronous online meetings 10/1, 10/8, 10/22, 10/29, 11/5.*	Seats (Total: 20) ONLINE ONLINE
WW02	Richmond Mathews **Meets October 2, 2018 - November 6, 2018** Tu 4:30pm - 6:00pm Class time/details on ELMs *Synchronous online meetings 10/2, 10/9, 10/23, 10/30, 11/6.*	Seats (Total: 20) ONLINE ONLINE

BUFN754 **Corporate Risk Management**

(Perm req)

Credits: 2 Grading Method: Regular

Prerequisite: BUSI640. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUFN712, BUFN716, BUFN752 or BUFN754.

Surveys the theory and practice of financial risk identification, measurement, and mitigation at financial and non-financial firms. Topics will include hedging with options and futures, interest rate risk management, Value-at-Risk (VaR), Cashflow-at-Risk (CaR), Earnings-at-Risk (EaR), credit risk, equity risk, commodities risk, exchange rate risk, and lessons from risk management disasters.

0501	Clifford Rossi	Seats (Total: 0)
	Meets October 22, 2018 - December 11, 2018	
	TuTh 10:00am - 11:50am	VMH 1330
	For Master of Finance students only.	

BUFN755 **Entrepreneurial Finance and Private Equity**

Credits: 2 Grading Method: Regular

Prerequisite: BUSI640. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUFN755 or BUFN717.

An advanced topics course in Corporate Finance. The major emphasis is how financiers help growing firms - and in particular young start-ups - using different types of securities at different points in the industry's and firm's life. Financing arrangements and securities studied will include private equity funds and private financings placements, Venture Capital (VC) and preferred equity, Investment Banks through Initial Public Offerings (IPOs), Private equity finds, debt and leveraged buyouts. Students will learn additional techniques that will help them understand how financiers value firms and how to understand, plan and value different financing strategies.

DC01	Andrew Sherman	Seats (Total: 45)
	Meets October 22, 2018 - December 11, 2018	
	Tu 6:25pm - 10:00pm	DC C1

BUFN758C **Special Topics in Finance; Corporate & Public Policy Issues in Finance**

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in finance.

GS01	Michael Faulkender	Seats (Total: 50)
	Meets August 27, 2018 - October 15, 2018	
	Tu 6:25pm - 10:00pm	BLD2 2032

BUFN758Q **Special Topics in Finance; Modern Financial Theory, Governance, & Valuation**

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in finance.

0501	Joel Stern	Seats (Total: 0)
	Meets October 22, 2018 - December 11, 2018	
	Tu 6:25pm - 10:00pm	VMH 1202

BUFN758V **Special Topics in Finance; Advanced Equity Modeling**

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in finance.

0501	Ryan Guttridge	Seats (Total: 35)
	Meets August 27, 2018 - October 15, 2018	
	MW 7:00pm - 8:50pm	VMH 1336
	For Master of Finance students only.	

BUFN758W **Special Topics in Finance; Applied Equity Modeling**

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in finance.

0501	Ryan Guttridge	Seats (Total: 35)
	Meets October 22, 2018 - December 11, 2018	
	MW 7:00pm - 8:50pm	VMH 1336
	For Master of Finance students only.	

BUFN758X **Special Topics in Finance; Market Microstructure**

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in finance.

0501	Albert Kyle	Seats (Total: 0)
	Meets August 27, 2018 - October 15, 2018	
	TuTh 4:00pm - 5:50pm	VMH 1528
	For Master of Finance students only.	

0502	Albert Kyle	Seats (Total: 0)
	Meets August 27, 2018 - October 15, 2018	
	TuTh 6:00pm - 7:50pm	VMH 1528
	For Master of Finance students only.	

BUFN758Z **Special Topics in Finance; Global Equity Fund**

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in finance.

Contact department for information to register for this course.

BUFN759 **Independent Study in Finance**

(Perm req)

Credits: 1-6 Grading Method: Regular

Independent study for Masters students in finance.

Contact department for information to register for this course.

BUFN762 **Fixed Income Analysis**

Credits: 2 Grading Method: Regular

Prerequisite: BUFN740. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUFN732 or BUFN762.

Describes important financial instruments which have market values that are sensitive to interest rate movements. Develops tools to analyze interest rate sensitivity and value fixed income securities. Defines and explains the vocabulary of the bond management business.

DC01	Haluk Unal	Seats (Total: 45)
	Meets October 22, 2018 - December 11, 2018	
	Th 6:25pm - 10:00pm Contact instructor or department for details.	DC C4

BUFN763 **Portfolio Management**

(Perm req)

Credits: 2 Grading Method: Regular

Prerequisite: BUFN740. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUFN734 or BUFN763.

Provides training that is important in understanding the investment process - the buy side of the financial world. Specifically, the objective is to provide graduate-level instruction in the following topics, both in theory and in using financial markets data to test the basic theory and practice of portfolio choice and equilibrium pricing models and their implications for efficient portfolios.

0501	Mark Loewenstein **Meets August 27, 2018 - October 15, 2018** MW 10:00am - 11:50am *For Master of Finance students only.*	Seats (Total: 0) VMH 1528
0502	Mark Loewenstein **Meets August 27, 2018 - October 15, 2018** MW 4:00pm - 5:50pm *For Master of Finance students only.*	Seats (Total: 0) VMH 1330

BUFN765 **Fixed Income Derivatives**

(Perm req)

Credits: 2 Grading Method: Regular

Prerequisite: BUFN762. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUFN765 or BUFN744.

Surveys fixed income assets and related securities such as Exchange-traded bond options; bonds with embedded options; floating rate notes; caps, collars, and floors; floating rate notes with embedded options. Also surveys advanced tools for interest-rate and fixed-income portfolio management, including the use of derivative securities, and the application of binomial trees for analysis of options, and a sound understanding of stochastic yield curves.

0501	Haluk Unal **Meets October 22, 2018 - December 11, 2018** M 6:25pm - 10:00pm *For Master of Finance students only.*	Seats (Total: 0) VMH 1518

BUFN766 **Financial Engineering**

(Perm req) Credits: 2 Grading Method: Regular

Prerequisite: BUFN740. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUFN742 or BUFN766.

Develop Excel and Visual Basic (VBA) models to solve problems related t portfolio management, options valuation, fixed income securities, interest rate processes, and risk management. This course thus bridges theory with the design of algorithms and models that can be directly applied in practice.

0501	Mark Loewenstein **Meets October 22, 2018 - December 11, 2018** MW 10:00am - 11:50am *For Master of Finance students only.*	Seats (Total: 0) VMH 1330
0502	Mark Loewenstein **Meets October 22, 2018 - December 11, 2018** MW 12:00pm - 1:50pm *For Master of Finance students only.*	Seats (Total: 0) VMH 1330

BUFN768A Special Topics in Finance; Experiential Learning Project

Credits: 1-4 Grading Method: Regular

Selected experiential learning opportunities in advanced topics in the various fields of graduate study in finance.

Contact department for information to register for this course.

BUFN768B Special Topics in Finance; Experiential Learning Project

Credits: 1-4 Grading Method: Regular

Selected experiential learning opportunities in advanced topics in the various fields of graduate study in finance.

Contact department for information to register for this course.

BUFN768O Special Topics in Finance; Experiential Learning Project

Credits: 1-4 Grading Method: Regular

Selected experiential learning opportunities in advanced topics in the various fields of graduate study in finance.

Contact department for information to register for this course.

BUFN768P **Special Topics in Finance; Experiential Learning Project**

Credits: 1-4 Grading Method: Regular

Selected experiential learning opportunities in advanced topics in the various fields of graduate study in finance.

Contact department for information to register for this course.

BUFN768X **Special Topics in Finance; Experiential Learning Project**

Credits: 1-4 Grading Method: Regular

Selected experiential learning opportunities in advanced topics in the various fields of graduate study in finance.

Contact department for information to register for this course.

BUFN768Y **Special Topics in Finance; Experiential Learning Project**

Credits: 1-4 Grading Method: Regular

Selected experiential learning opportunities in advanced topics in the various fields of graduate study in finance.

Contact department for information to register for this course.

BUFN770 **International Investment**

(Perm req)

Credits: 2 Grading Method: Regular

Prerequisite: BUSI640. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUFN721 or BUFN770.

Addresses international stock markets, portfolio theory, international interest rates, exchange rates and exchange rate derivatives (options, forwards, and futures), exchange rate swaps and exchange rate exposure (operating, translation, and transaction), foreign investment strategey.

0501	Steven Heston	Seats (Total: 0)
	Meets August 27, 2018 - October 15, 2018	
	TuTh 10:00am - 11:50am	VMH 1511
	For Master of Finance students only.	

BUFN771 **International Corporate and Project Finance**

(Perm req)

Credits: 2 Grading Method: Regular

Prerequisite: BUFN770. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUFN724 or (BUFN770 and BUFN771). Formerly: BUFN724.

Continuation of BUFN770. Issues addressed will include captial budgeting, project financing, exhange rate exposure (operating, translation, and transaction), foreign investment strategy, and risk management.

0501	Steven Heston **Meets October 22, 2018 - December 11, 2018** MW 4:00pm - 5:50pm *For Master of Finance students only.*	Seats (Total: 0) VMH 1330

BUFN773 **Institutional Asset Management**

(Perm req)

Credits: 2 Grading Method: Regular

Prerequisite: BUSI640. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUFN660, BUFN726, BUFN761 or BUFN773.

Examines how money is managed by organizations such as university endowments, pension funds, mutual funds, hedge funds, and private equity funds. Involves a mixture of finance and economics and emphasizes the incentives professional money managers face within the context of the organizational structure in which they operate. Particular attention is paid to compensation structures and monitoring mechanisms.

0501	Albert Kyle **Meets October 22, 2018 - December 11, 2018** M 6:25pm - 10:00pm *For Master of Finance students only.*	Seats (Total: 0) VMH 1335
0502	Albert Kyle **Meets October 22, 2018 - December 11, 2018** Th 6:25pm - 10:00pm Contact instructor or department for details. *For Master of Finance students only.*	Seats (Total: 0) VMH 1333

BULM Logistics, Business, and Public Policy Fall 2018

Courses with the BULM prefix are offered only for students in the MS in Supply Chain Management program.

BULM700 **Business Fundamentals for Supply Chain Managers I**

(Perm req) Credits: 2 Grading Method: Regular

Restriction: Permission of BMGT-Robert H. Smith School of Business; or must be in Business and Management (Master's) program. Credit only granted for: BULM758K or BULM700. Formerly: BULM758K.

This course is part of a series of two courses Business Fundamentals for SCM part I and, part II. The series is intended to provide you with the knowledge and skills necessary to quantify the impact of supply chain management decisions on the bottom line. Students will gain a solid understanding of accounting, finance and the link between supply chain and overall financial performance. Students will analyze financial statements and explain the implications of supply chain management decisions on standard financial ratios and all components of the balance sheet and income statement. Through interactive supply chain finance models, students will demonstrate the sensitivity of outcome to multiple independent variables. Last but not least, students will also learn how to apply the net present value technique to evaluate the feasibility of investment projects in supply chain.

0501	Humberto Coronado	Seats (Total: 0)
	Meets August 27, 2018 - October 15, 2018	
	MW 4:00pm - 5:50pm	VMH 1505
	For MS in Supply Chain Management students only.	

BULM701 **Business Fundamentals for Supply Chain Managers II**

(Perm req) Credits: 2 Grading Method: Regular

Prerequisite: BULM700; or permission of BMGT-Robert H. Smith School of Business. Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BULM758Q or BULM701. Formerly: BULM758Q.

This is the second course of the series Business fundamentals for Supply Chain Managers. This course is intended to provide you with the knowledge and skills necessary to quantify the impact of supply chain management decisions on the bottom line. Students will gain a solid understanding of accounting, finance and the link between supply chain and overall financial performance. Students will analyze financial statements and explain the implications of supply chain management decisions on standard financial ratios and all components of the balance sheet and income statement. Through interactive supply chain finance models, students will demonstrate the sensitivity of outcome to multiple independent variables. Last but not least, students will also learn how to apply the net present value technique to evaluate the feasibility of investment projects in supply chain.

0501	Humberto Coronado	Seats (Total: 0)
	Meets October 22, 2018 - December 11, 2018	
	MW 4:00pm - 5:50pm	VMH 1505
	For MS in Supply Chain Management students only.	

BULM710 **Data Driven Decision Making I**

(Perm req)

Credits: 2 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUSI630, BULM758X or BULM710. Formerly: BULM758X.

Analytical modeling of business decisions; uncertainty, risk and expected utility; regression modeling to infer relationships among variables.

0501	Tunay Tunca	Seats (Total: 0)
	Meets August 27, 2018 - October 15, 2018	
	TuTh 10:00am - 11:50am	VMH 1520
	For MS in Supply Chain Management students only.	

BULM711 **Data Driven Decision Making II**

(Perm req)

Credits: 2 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUSI630, BULM758Y or BULM711. Formerly: BULM758Y.

Analytical modeling of business decisions; uncertainty, risk and expected utility; regression modeling to infer relationships among variables.

0501	Maria Bardossy	Seats (Total: 0)
	Meets October 22, 2018 - December 11, 2018	
	TuTh 10:00am - 11:50am	VMH 1520
	For MS in Supply Chain Management students only.	

BULM721 **Global Supply Chain Management**

Credits: 2 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUSI672 or BULM721.

Offers a practical blueprint for understanding, building, implementing, and sustaining supply chains in today's rapidly changing global supply chain environment. It will provide the student with a survey of the fast-moving Supply Chain Management discipline and practice, including the evolution of supply chain strategies, business models and technologies; current best practices in demand and supply management; and methodologies for conducting supply chain-wide diagnostic assessments and formulating process improvement plans.

0501	Adams Steven	Seats (Total: 0)
	Meets August 27, 2018 - October 15, 2018	
	TuTh 12:00pm - 1:50pm	VMH 1520
	For MS in Supply Chain Management students only.	

BULM742 **Global Supply Chain Resources Planning**

(Perm req)

Credits: 2 Grading Method: Regular

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)) ; or permission of BMGT-Robert H. Smith School of Business.

Provides students with an overall understanding of how firms use an advanced supply chain planning (ASCP) application as an integral part of their materials management process which includes such activities as production planning, materials requirements planning, and distribution requirements planning.

0501	Philip Evers	Seats (Total: 0)
	Meets October 22, 2018 - December 11, 2018	
	TuTh 8:00am - 9:50am	VMH 1520
	For MS in Supply Chain Management students only.	

BULM758B **Special Topics in Logistics, Business and Public Policy; Supply Chain Strategy**

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in logistics, business and public policy.

0501	Martin Dresner	Seats (Total: 0)
	Meets October 22, 2018 - December 11, 2018	
	Tu 6:25pm - 10:00pm	VMH 1307
	For MS in Supply Chain Management students only.	

BULM758L **Special Topics in Logistics, Business and Public Policy; Lean Six Sigma for Supply Chain**

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in logistics, business and public policy.

0501	Nadya Barnes	Seats (Total: 0)
	Meets August 27, 2018 - October 15, 2018	
	M 6:25pm - 10:00pm	VMH 1335
	For MS in Supply Chain Management students only.	

BULM758V **Special Topics in Logistics, Business and Public Policy; Lean Six Sigma for Supply Chain II**

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in logistics, business and public policy.

0501	Nadya Barnes	Seats (Total: 0)
	Meets October 22, 2018 - December 11, 2018	
	M 6:25pm - 10:00pm	VMH 1411
	For MS in Supply Chain Management students only.	

BULM759 **Independent Study in Logistics Management**

(Perm req)

Credits: 1-6 Grading Method: Regular

Independent study for Masters students in Logistics Management.

Contact department for information to register for this course.

BUMK Marketing Fall 2018

Courses with the BUMK prefix are offered only for students in the MS in Marketing Analytics program.

BUMK701 **Marketing Research Methods**

Credits: 2 Grading Method: Regular

Prerequisite: BUSI650 and BUSI630. Credit only granted for: BMGT752 or BUMK701. Formerly: BMGT752.

The process of acquiring, classifying and interpreting primary and secondary marketing data needed for intelligent, profitable marketing decisions. Evaluation of the appropriateness of alternative methodologies, such as the inductive, deductive, survey, observational, and experimental. Recent developments in the systematic recording and use of internal and external data needed for marketing decisions.

BA01	David Ashley, Rosellina Ferraro **Meets August 25, 2018 - October 15, 2018** M 6:25pm - 10:00pm	Seats (Total: 50) BA 101
DC06	David Ashley **Meets August 25, 2018 - October 13, 2018** Sa 2:00pm - 6:30pm Class time/details on ELMs *Meets 8/25, 9/8, 9/22, 10/6, Final 10/13. Blended.*	Seats (Total: 50) DC C2 ONLINE

BUMK715 Consumer Behavior

Credits: 2 Grading Method: Regular

Prerequisite: BUSI650. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BMGT754 or BUMK715. Formerly: BMGT754.

Analysis of customer decision-making and how marketing strategy can be used to influence those decisions. The framework is a buyer behavior model, in which concepts from psychology, sociology, and economics are applied to individual and organizational purchase decisions. Marketing strategies of leading firms in consumer products, technology, and services (including internet services) are analyzed using a variety of case study formats. Focus is consumer behavior; however, principles can also be applied to the decision-making of business.

WW01	Rosellina Ferraro **Meets September 26, 2018 - November 14, 2018** W 4:30pm - 6:00pm Class time/details on ELMs *Synchronous online meetings 9/26, 10/3, 10/10, 10/24, 10/31, 11/7, 11/14.*	Seats (Total: 25) ONLINE ONLINE

WW02	Rosellina Ferraro **Meets September 27, 2018 - November 15, 2018** Th 4:30pm - 6:00pm Class time/details on ELMs *Synchronous online meetings 9/27, 10/4, 10/11, 10/25, 11/1, 11/8, 11/15*	Seats (Total: 25) ONLINE ONLINE
WW03	Rosellina Ferraro **Meets September 25, 2018 - November 13, 2018** Tu 4:30pm - 6:00pm Class time/details on ELMs *Synchronous online meetings 9/25, 10/2, 10/9, 10/23, 10/30, 11/6, 11/13*	Seats (Total: 25) ONLINE ONLINE

BUMK720 **Marketing Strategy**

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Permission of BMGT-Robert H. Smith School of Business; or must be in Business and Management (Master's) program. Credit only granted for: BUMK758B or BUMK720. Formerly: BUMK758B.

Introduces students to the fundamentals of marketing. This course combines lectures, readings, case analyses and a competitive simulation. A significant part of the course involves a competitive computer-based simulation in which student teams leverage marketing data and metrics to make marketing decisions for an organization that is competing in a market against other student teams in the class.

0501	Wendy Moe **Meets August 27, 2018 - December 11, 2018** TuTh 12:30pm - 1:45pm *For MS in Marketing Analytics students only.*	Seats (Total: 0) VMH 1505

BUMK726 **Statistical Programming for Customer Analytics**

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUMK758E or BUMK726. Formerly: BUMK758E.

Provides students with a foundation in probability and statistics with a focus on business applications. It also gives students a foundation for thinking in both likelihood and Bayesian frameworks. The course teaches students the basics of SAS, as well as its use in statistical analysis and statistical programming. Also addressed are basic SAS language structure, data management, OLAP, enterprise miner, statistical analysis, writing procedures.

0501	Lingling Zhang	Seats (Total: 0)
	Meets August 27, 2018 - December 11, 2018	
	TuTh 2:00pm - 3:15pm	VMH 1505
	For MS in Marketing Analytics students only.	

BUMK742 **Advanced Marketing Analytics**

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUMK758K or BUMK742. Formerly: BUMK758K.

The analysis of marketing data needed for profitable marketing decisions. Advanced methods of marketing analysis for marketing decisions, including choice and count data models, joint analysis of consumers choice, quantity and timing decisions, mixture and mixture regression models, and conjoint analysis, all using data-based cases and SAS software. Applications are in the areas of strategic marketing, marketing segmentation, eye tracking for advertising effectiveness, new product development, sales promotion analysis, pricing, design of marketing mix, and direct marketing.

0501	Michel Wedel	Seats (Total: 0)
	Meets August 27, 2018 - December 11, 2018	
	W 7:00pm - 9:40pm	VMH 1303
	For MS in Marketing Analytics students only.	

BUMK757 **Marketing Strategy**

Credits: 2 Grading Method: Regular

Prerequisite: BUSI650. Credit only granted for: BMGT757 or BUMK757. Formerly: BMGT757.

A capstone marketing course. Marketing strategies designed to manage products in selected market segments. Topics covered include competitor analysis, buyer analysis, market segments, and product strengths and weaknesses; product related issues are identified and marketing strategies developed, assessed and implemented.

DC01	Mary Harms **Meets August 27, 2018 - October 15, 2018** M 6:25pm - 10:00pm	Seats (Total: 45) DC C1

BUMK758J **Special Topics in Marketing; Pricing Strategies for Sustainable Competitive Advantage**

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in marketing.

BA01	Bo Zhou **Meets October 22, 2018 - December 11, 2018** W 6:25pm - 10:00pm Contact instructor or department for details.	Seats (Total: 45) BA 103
DC01	Bo Zhou **Meets October 22, 2018 - December 11, 2018** Th 6:25pm - 10:00pm Contact instructor or department for details.	Seats (Total: 45) DC C1

BUMK758O **Special Topics in Marketing; Digital Marketing**

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in marketing.

GS01	Pallassana Kannan **Meets August 27, 2018 - October 15, 2018** W 6:25pm - 10:00pm	Seats (Total: 45) BLD2 2062

BUMK759 **Independent Study in Marketing**

(Perm req)

Credits: 1-6 Grading Method: Regular

Independent study for Masters students in Marketing.

Contact department for information to register for this course.

BUMK762 **Business Communication I**

(Perm req) Credits: 1 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUMK758H or BUMK762. Formerly: BUMK758H.

A study of the standards of business conduct, morals and values as well as the role of business in society. Students will consider the sometimes conflicting interests of and claims on the firm and its objectives.

0501	Christine Schaaf **Meets October 22, 2018 - December 11, 2018** F 10:00am - 11:50am *For MS in Marketing Analytics students only.*	Seats (Total: 0) VMH 1412
0502	Christine Schaaf **Meets October 22, 2018 - December 11, 2018** F 12:00pm - 1:50pm *For MS in Marketing Analytics students only.*	Seats (Total: 0) VMH 1412

BUMO Management and Organization Fall 2018

BUMO714 Competitive and Collaborative Negotiation

Credits: 2 Grading Method: Regular

Corequisite: BUMO715. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUMO714 or BMGT700.

Increase negotiating self-confidence and improve capacity to achieve win-win solutions to organizational problems. Improve effectiveness at finding creative solutions to conflict.

DC01	Gosia Langa Basit **Meets October 22, 2018 - December 11, 2018** M 6:25pm - 10:00pm	Seats (Total: 50) DC C2

DC06	Gosia Langa Basit **Meets October 20, 2018 - December 8, 2018** Sa 2:00pm - 6:30pm Class time/details on ELMs *Meets 10/20, 11/3, 11/17, 12/1, Final 12/8. Blended.*	Seats (Total: 45) DC C3 ONLINE
GS01	Gosia Langa Basit **Meets October 22, 2018 - December 11, 2018** W 6:25pm - 10:00pm Contact instructor or department for details.	Seats (Total: 45) BLD2 3032

BUMO725 **Networks and Influence**

(Perm req)

Credits: 2 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program. Credit only granted for: BUMO725 or BULM732.

Focuses on networks, social capital, and influence as they relate to operating effectively in organizations. It draws heavily on emerging literature related to social capital and networks, but also integrates concepts from persuasion, communication, and motivation literatures to aid your efforts to build a successful track record for yourself and your organization.

0501	Gosia Langa Basit **Meets August 27, 2018 - October 15, 2018** TuTh 4:00pm - 5:50pm *For MS in Supply Chain Management students only.*	Seats (Total: 0) VMH 1520

BUMO732 **Entrepreneurship and New Ventures**

Credits: 2 Grading Method: Regular

Credit only granted for: BUMO732 or BUSI660. Formerly: BMGT780.

Provides an introduction to important tools and skills necessary to create and grow a successful new venture. Integrates research findings from a range of different practical and intellectual perspectives, including psychology, sociology, economics, strategic management, and history into practical, hands on lessons for an entrepreneur. Class projects provide the foundations for new, real businesses.

DC01	Jonathan Aberman **Meets August 27, 2018 - October 15, 2018** W 6:25pm - 10:00pm	Seats (Total: 45) DC C2
DC06	Jonathan Aberman **Meets August 25, 2018 - October 13, 2018** Sa 2:00pm - 6:30pm Class time/details on ELMs *Meets 8/25, 9/8, 9/22, 10/6, Final 10/13. Blended.*	Seats (Total: 45) DC C3 ONLINE

BUMO756 **Industry Analysis**

Credits: 2 Grading Method: Regular

Recommended: BUSI690. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BMGT792 or BUMO756. Formerly: BMGT792.

Conceptual framework and analytical tools for understanding the dynamic of industry structure. Impacts of past and future attractiveness of the industry on profitability. Developing and applying frameworks to devise competitive strategies in uncertain industries.

BA01	Serguey Braguinsky **Meets October 22, 2018 - December 11, 2018** Tu 6:25pm - 10:00pm	Seats (Total: 45) BA 103

BUMO758A **Special Topics in Management and Organization; Strategic Growth for Emerging Companies**

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in management and organization.

DC06	Jonathan Aberman **Meets October 20, 2018 - December 8, 2018** Sa 2:00pm - 6:30pm Class time/details on ELMs *Meets 10/20, 11/3, 11/17, 12/1, Final 12/8. Blended.*	Seats (Total: 45) DC C2 ONLINE

BUMO758D **Special Topics in Management and Organization; Social Entrepreneurship**

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in management and organization.

DC01	James Sanders	Seats (Total: 45)
	Meets October 22, 2018 - December 11, 2018	
	Tu 6:25pm - 10:00pm	DC C2

BUMO758G **Special Topics in Management and Organization; Innovation Management**

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in management and organization.

BA01	Clarence Wesley	Seats (Total: 45)
	Meets August 27, 2018 - October 15, 2018	
	W 6:25pm - 10:00pm	BA 101

BUMO758L **Special Topics in Management and Organization; Leadership Development**

Credits: 4 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in management and organization.

DC01	Hui Liao	Seats (Total: 50)
	Meets August 27, 2018 - December 11, 2018	
	Th 6:25pm - 10:00pm	DC C2

BUMO759 **Independent Study in Management and Organization**

(Perm req)

Credits: 1-6 Grading Method: Regular

Independent study for Masters students in management and organization.

Contact department for information to register for this course.

BUMO767 **Cross-Cultural Communication and Teamwork**

Credits: 2 Grading Method: Regular

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)) ; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUSI667 or BUMO767. Formerly: BUSI667.

Provide managers a sound basis for developing such competencies. Specifically, we will develop an understanding of key cultural differences, and how these differences influence the management of individuals, groups, and organizations.

DC01	Ella Washington	Seats (Total: 45)
	Meets October 22, 2018 - December 11, 2018	
	W 6:25pm - 10:00pm	DC C2
	Contact instructor or department for details.	

BUSI Part-Time MBA Program Fall 2018

BUSI610 **Introduction to Financial Accounting**

(Perm req)

Credits: 2 Grading Method: Regular

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUSI610, BUAC602, BUFN602, or BMGT602.

Overview of financial accounting, periodic financial statements and the financial reporting process. Importance of financial statements as information source for creditors and investors and as a means by which managers can communicate information about their firms.

Non majors should review their registration eligibility in the statement preceding the BUSI courses.

0501	Michael Kimbrough	Seats (Total: 35)
	Meets August 27, 2018 - October 15, 2018	
	MW 12:00pm - 1:50pm	VMH 1330
	For Master of Finance and MS in Business & Management students only.	
0502	Jeffrey Milton	Seats (Total: 0)
	Meets August 27, 2018 - October 15, 2018	
	TuTh 5:00pm - 6:50pm	VMH 1335
	For MS in Business and Management students only.	

BA01	Musa Subasi **Meets October 22, 2018 - December 11, 2018** Tu 6:25pm - 10:00pm	Seats (Total: 0) BA 104
DC01	Michael Kimbrough **Meets October 22, 2018 - December 11, 2018** W 6:25pm - 10:00pm Contact instructor or department for details.	Seats (Total: 0) DC C3
DC02	Michael Kimbrough **Meets October 22, 2018 - December 11, 2018** Th 6:25pm - 10:00pm Contact instructor or department for details.	Seats (Total: 0) DC C3
GS01	Musa Subasi **Meets October 22, 2018 - December 11, 2018** M 6:25pm - 10:00pm	Seats (Total: 0) BLD2 2032

BUSI621 **Strategic and Transformational IT**

(Perm req)

Credits: 2 Grading Method: Regular

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)) ; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUSI620 or BUSI621.

Introduces students to the key issues in managing information technolog (IT) and provides an overview of how major IT applications in today's firms support strategic, opertaional, and tactical decisions. Topics include: synchroizing IT and business strategy; the transformational impacts of IT; evaluating and coping with new technologies; governing, managing, and organizing the IT function including outsourcing/offshoring considerations; assessing the business value of IT and justifying IT projects; and managing IT applications in functional areas to support strategy and business process.

0501	Il-Horn Hann **Meets October 22, 2018 - December 11, 2018** TuTh 6:00pm - 7:50pm *For MS in Information Systems students only.*	Seats (Total: 0) VMH 1330

0502	Il-Horn Hann **Meets October 22, 2018 - December 11, 2018** TuTh 8:00pm - 9:50pm *For MS in Information Systems students only.*	Seats (Total: 0) VMH 1330

BUSI622 **Managing Digital Business Markets**

Credits: 2 Grading Method: Regular

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)) ; or permission of BMGT-Robert H. Smith School of Business.

The objective is to understand the strategic and tactical issues involved in managing digital businesses and markets. Also, some of the characteristics of digital businesses and markets that make them unique and understand how companies can best manage them will be examined.

0501	Sivakumar Viswanathan **Meets August 27, 2018 - October 15, 2018** TuTh 12:00pm - 1:50pm *For MS in Information Systems students only.*	Seats (Total: 0) VMH 1528
0502	Sivakumar Viswanathan **Meets August 27, 2018 - October 15, 2018** TuTh 2:00pm - 3:50pm *For MS in Information Systems studenst only.*	Seats (Total: 0) VMH 1528
DC06	Il-Horn Hann **Meets August 25, 2018 - October 13, 2018** Sa 8:30am - 1:00pm Class time/details on ELMs *Meets 8/25, 9/8, 9/22, 10/6, Final 10/13. Blended.*	Seats (Total: 45) DC C2 ONLINE

BUSI630 **Data, Models and Decisions**

(Perm req)

Credits: 2 Grading Method: Regular

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)).

Analytical modeling of business decisions; uncertainty, risk and expected utility; regression modeling to infer relationships among variables.

0501	Tunay Tunca **Meets August 27, 2018 - October 15, 2018** MW 12:00pm - 1:50pm *For MS in Business Analytics students only.*	Seats (Total: 0) VMH 1511
0502	Tunay Tunca **Meets August 27, 2018 - October 15, 2018** MW 2:00pm - 3:50pm *For MS in Business Analytics students only.*	Seats (Total: 0) VMH 1511
BA01	Ashish Kabra **Meets October 22, 2018 - December 11, 2018** Th 6:25pm - 10:00pm Contact instructor or department for details.	Seats (Total: 0) BA 104
DC01	Ashish Kabra **Meets October 22, 2018 - December 11, 2018** M 6:25pm - 10:00pm Contact instructor or department for details.	Seats (Total: 0) DC C3
DC02	Ashish Kabra **Meets October 22, 2018 - December 11, 2018** Tu 6:25pm - 10:00pm Contact instructor or department for details.	Seats (Total: 0) DC C3
GS01	Ashish Kabra **Meets October 22, 2018 - December 11, 2018** W 6:25pm - 10:00pm Contact instructor or department for details.	Seats (Total: 0) BLD2 2032

BUSI634 Operations Management

Credits: 2 Grading Method: Regular

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)) ; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUSI634 or BMGT624.

Operations management is concerned with efficient and effective design and operation of business processes for delivering products and/or services. Emphasis is given to process analysis and design, capacity management and bottlenecks, waiting lines and the impact of uncertainty in process performance, quality management, lean, six-sigma, and revenue management.

BA01	Yi Xu **Meets August 27, 2018 - October 15, 2018** W 6:25pm - 10:00pm	Seats (Total: 55) BA 104
DC01	Yi Xu **Meets August 27, 2018 - October 15, 2018** Tu 6:25pm - 10:00pm	Seats (Total: 65) DC C2
DC06	Yi Xu **Meets August 25, 2018 - October 13, 2018** Sa 8:30am - 1:00pm Class time/details on ELMs *Meets 8/25, 9/8, 9/22, 10/6, Final 10/13. Blended.*	Seats (Total: 45) DC C3 ONLINE
GS01	Zhi-Long Chen **Meets August 27, 2018 - October 15, 2018** Th 6:25pm - 10:00pm	Seats (Total: 45) BLD2 2032

BUSI640 **Financial Management**

(Perm req)

Credits: 2 Grading Method: Regular

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)).

Focuses on the valuation of the real assets of firms as well as the valuation of stocks and bonds, the primary financial assets in an economy. While details vary, the conceptual foundations of valuation boil down to three themes: time value of money, no-arbitrage, and systematic risk.

Non majors should review their registration eligibility in the statement preceding the BUSI courses.

0504	James Seward **Meets August 27, 2018 - October 15, 2018** MW 6:30pm - 8:20pm *For MS in Business and Management students only.*	Seats (Total: 0) VMH 1518

BUSI662 **Leadership and Teamwork**

(Perm req)

Credits: 2 Grading Method: Regular

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BMGT600, BUSI662, or BUSM600.

Course examines concepts of team-building and leadership which are critical to managerial success. Topics include leadership, decision making, communication and conflict, work motivation, building effective teams, and organizational change and culture.

BA01	Neta Moye **Meets August 27, 2018 - October 15, 2018** Th 6:25pm - 10:00pm	Seats (Total: 0) BA 104
DC01	Subrahmaniam Tangirala **Meets August 27, 2018 - October 15, 2018** M 6:25pm - 10:00pm	Seats (Total: 0) DC C3
DC02	Subrahmaniam Tangirala **Meets August 27, 2018 - October 15, 2018** Tu 6:25pm - 10:00pm	Seats (Total: 0) DC C3
GS01	Gosia Langa Basit **Meets August 27, 2018 - October 15, 2018** W 6:25pm - 10:00pm	Seats (Total: 0) BLD2 2032

BUSI672 **Global Supply Chain Management**

Credits: 2 Grading Method: Regular

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUSI672 or BMGT740.

Offers a practical blueprint for understanding, building, implementing, and sustaining supply chains in today's rapidly changing global supply chain environment. It will provide the student with a survey of the fast-moving Supply Chain Management discipline and practice, including the evolution of supply chain strategies, business models and technologies; current best practices in demand and supply management; and methodologies for conducting supply chain-wide diagnostic assessments and formulating process improvement plans.

DC01	Thomas Corsi **Meets October 22, 2018 - December 11, 2018** M 6:25pm - 10:00pm	Seats (Total: 45) DC C4

BUSI681 **Managerial Economics and Public Policy**

(Perm req)

Credits: 2 Grading Method: Regular

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUSI681 or BMGT604.

Basic microeconomic principles used by firms, including supply and demand, elasticities, costs, productivity, pricing, market structure and competitive implications of alternative market structures. Market failures and government intervention. Public policy processes affecting business operations.

Non-majors should review their registration eligibility in the statement preceding the BUSI courses.

BA01	Robert Windle **Meets August 27, 2018 - October 15, 2018** Tu 6:25pm - 10:00pm	Seats (Total: 0) BA 104
DC01	Rachelle Sampson **Meets August 27, 2018 - October 15, 2018** W 6:25pm - 10:00pm	Seats (Total: 0) DC C3
DC02	Jahangir Boroumand **Meets August 27, 2018 - October 15, 2018** Th 6:25pm - 10:00pm	Seats (Total: 0) DC C3

GS01	Robert Windle **Meets August 27, 2018 - October 15, 2018** M 6:25pm - 10:00pm	Seats (Total: 0) BLD2 2032

BUSI758B **Special Topics in Business; Data Models and Decisions**

(Perm req)

Credits: 3 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in business.

0501	Sujin Kim **Meets August 27, 2018 - December 11, 2018** MW 9:30am - 10:45am *For MS in Information Systems students only.*	Seats (Total: 0) VMH 1333
0502	Sujin Kim **Meets August 27, 2018 - December 11, 2018** MW 11:00am - 12:15pm *For MS in Information Systems students only.*	Seats (Total: 0) VMH 1333

BUSI758C **Special Topics in Business; Data Driven Decision Making I**

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in business.

0501	Maria Bardossy **Meets August 27, 2018 - October 15, 2018** TuTh 10:00am - 11:50am *For MS in Accounting students only.*	Seats (Total: 0) VMH 1528
0502	Tunay Tunca **Meets August 27, 2018 - October 15, 2018** TuTh 10:00am - 11:50am *For MS in Accounting students only.*	Seats (Total: 0) VMH 1520

BUSI758E **Special Topics in Business; Fundamentals of Business Decision Making**

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in business.

BA01	Progyan Basu **Meets August 27, 2018 - September 10, 2018** SaSu 9:00am - 7:00pm	Seats (Total: 0) Location: TBA
DC01	Paulo Prochno **Meets August 27, 2018 - September 10, 2018** SaSu 9:00am - 7:00pm	Seats (Total: 0) Location: TBA

BUSI759 **Independent Study in Business**

(Perm req)

Credits: 1-6 Grading Method: Regular

Independent study for Masters students in Business.

Contact department for information to register for this course.

BUSI785 **Project Management in Dynamic Environments**

Credits: 2 Grading Method: Regular

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)) ; or permission of BMGT-Robert H. Smith School of Business.

Addresses project management skills that are required by successful managers in increasingly competitive and faster-moving environments. Examines fundamental concepts of successful project management, and the technical and managerial issues, methods, and techniques.

BA01	Barnet Corwin **Meets October 22, 2018 - December 11, 2018** M 6:25pm - 10:00pm	Seats (Total: 45) BA 104
GS01	Jeffrey Freel **Meets August 27, 2018 - October 15, 2018** M 6:25pm - 10:00pm	Seats (Total: 45) BLD2 3032

BUSI788B **Introduction to Global Business Experience; Doing Business in Brazil**

Credits: 2 Grading Method: Regular

Introduction to the economic climate of the country and region, history political influences on business landscape, and specific opportunities and threats of doing business in the destination country. Course is a prerequisite to short-term study abroad classes.

GB01	Paulo Prochno Su 12:00pm - 2:00pm	Seats (Total: 22) VMH 1303
GD01	Paulo Prochno Su 12:00pm - 2:00pm	Seats (Total: 3) VMH 1303
GE01	Paulo Prochno Su 12:00pm - 2:00pm	Seats (Total: 3) VMH 1303

BUSI788C **Introduction to Global Business Experience; Doing Business in China**

Credits: 2 Grading Method: Regular

Introduction to the economic climate of the country and region, history political influences on business landscape, and specific opportunities and threats of doing business in the destination country. Course is a prerequisite to short-term study abroad classes.

GB01	Zhi-Long Chen Su 12:00pm - 2:00pm	Seats (Total: 22) VMH 1307
GD01	Zhi-Long Chen Su 12:00pm - 2:00pm	Seats (Total: 2) VMH 1307
GE01	Zhi-Long Chen Su 12:00pm - 2:00pm	Seats (Total: 4) VMH 1307

BUSI788J **Introduction to Global Business Experience; Doing Business in South Africa**

Credits: 2 Grading Method: Regular

Introduction to the economic climate of the country and region, history political influences on business landscape, and specific opportunities and threats of doing business in the destination country. Course is a prerequisite to short-term study abroad classes.

GB01	Bennet Zelner Su 12:00pm - 2:00pm	Seats (Total: 22) VMH 1330

GD01	Bennet Zelner Su 12:00pm - 2:00pm	Seats (Total: 5) VMH 1330
GE01	Bennet Zelner Su 12:00pm - 2:00pm	Seats (Total: 3) VMH 1330

BUSI788M **Introduction to Global Business Experience; Doing Business in the UAE**

Credits: 2 Grading Method: Regular

Introduction to the economic climate of the country and region, history political influences on business landscape, and specific opportunities and threats of doing business in the destination country. Course is a prerequisite to short-term study abroad classes.

GB01	Hassan Ibrahim Su 12:00pm - 2:00pm	Seats (Total: 20) VMH 1333
GD01	Hassan Ibrahim Su 12:00pm - 2:00pm	Seats (Total: 5) VMH 1333
GE01	Hassan Ibrahim Su 12:00pm - 2:00pm	Seats (Total: 1) VMH 1333

BUSI788Y **Introduction to Global Business Experience; Doing Business in Japan and Singapore**

Credits: 2 Grading Method: Regular

Introduction to the economic climate of the country and region, history political influences on business landscape, and specific opportunities and threats of doing business in the destination country. Course is a prerequisite to short-term study abroad classes.

GB01	Cristian Dezso Su 12:00pm - 2:00pm	Seats (Total: 21) VMH 1335
GD01	Cristian Dezso Su 12:00pm - 2:00pm	Seats (Total: 6) VMH 1335
GE01	Cristian Dezso Su 12:00pm - 2:00pm	Seats (Total: 1) VMH 1335

BUSI799 **Masters Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

For Smith School MS Students only.

Contact department for information to register for this course.

BUSM Full-Time MBA Program Fall 2018

BUSM600 **Leadership and Teamwork**

(Perm req)

Credits: 2 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BMGT600, BUSI662 or BUSM600.

Course examines concepts of team-building and leadership which are critical to managerial success. Topics include leadership, decision making, communication and conflict, work motivation, building effective teams, and organizational change and culture.

0101	Neta Moye **Meets August 27, 2018 - December 11, 2018** Th 8:00am - 9:50am	Seats (Total: 0) VMH 2511
0201	Neta Moye **Meets August 27, 2018 - December 11, 2018** Tu 8:00am - 9:50am	Seats (Total: 0) VMH 2511

BUSM602 **Introduction to Financial Accounting**

(Perm req)

Credits: 2 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUSI610 or BUSM602.

Overview of financial accounting, periodic financial statements and the financial reporting process. Importance of financial statements as information source for creditors and investors and as a means by which managers can communicate information about their firms.

0101	Rebecca Hann **Meets August 27, 2018 - October 15, 2018** MW 8:00am - 9:50am	Seats (Total: 0) VMH 2505

0201	Rebecca Hann	Seats (Total: 0)
	Meets August 27, 2018 - October 15, 2018	
	MW 10:00am - 11:50am	VMH 2505

BUSM604 **Managerial Economics and Public Policy**

(Perm req)

Credits: 2 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUSI681 or BUSM604.

Basic microeconomic principles used by firms, including supply and demand, elasticities, costs, productivity, pricing, market structure and competitive implications of alternative market structures. Market failures and government intervention. Public policy processes affecting business operations.

0101	Rachelle Sampson	Seats (Total: 0)
	Meets August 27, 2018 - October 15, 2018	
	MW 10:00am - 11:50am	VMH 2511
0201	Rachelle Sampson	Seats (Total: 0)
	Meets August 27, 2018 - October 15, 2018	
	MW 8:00am - 9:50am	VMH 2511

BUSM606 **Data Driven Decision Making**

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUSI630 or BUSM606.

Analytical modeling of business decisions; uncertainty, risk and expected utility; regression modeling to infer relationships among variables.

0101	Shreevardhan Lele	Seats (Total: 0)
	Meets August 27, 2018 - December 11, 2018	
	TuTh 2:00pm - 3:15pm	VMH 2505

0201	Shreevardhan Lele **Meets August 27, 2018 - December 11, 2018** TuTh 3:30pm - 4:45pm	Seats (Total: 0) VMH 2505

BUSM610 **Financial Management**

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUSI640 or BUSM610.

Focuses on the valuation of the real assets of firms as well as the valuation of stocks and bonds, the primary financial assets in an economy. While details vary, the conceptual foundations of valuation boil down to three themes: time value of money, no-arbitrage, and systematic risk.

0101	Oya Altinkilic **Meets August 27, 2018 - December 11, 2018** TuTh 3:30pm - 4:45pm	Seats (Total: 0) VMH 2511
0201	Oya Altinkilic **Meets August 27, 2018 - December 11, 2018** TuTh 2:00pm - 3:15pm	Seats (Total: 0) VMH 2511

BUSM612 **Marketing Management**

(Perm req)

Credits: 2 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUSI650 or BUSM612.

Analysis of marketing problems and evaluation of specific marketing efforts regarding the organization's products and services, pricing activities, channel selection, and promotion strategies in both domestic and international markets.

0101	Judy Frels **Meets October 22, 2018 - December 11, 2018** MW 10:00am - 11:50am	Seats (Total: 0) VMH 2505

0201	Judy Frels **Meets October 22, 2018 - December 11, 2018** MW 8:00am - 9:50am	Seats (Total: 0) VMH 2505

BUSM626 **The Global Economic Environment**

(Perm req)

Credits: 2 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUSI683 or BUSM626.

Relationship between national and international economic environments. Determinants of output, interest rates, prices and exchange rates. Analysis of effect of economic policies (fiscal, monetary, trade, tax) on the firm and the economy.

0101	Charles Olson **Meets August 27, 2018 - October 15, 2018** MW 8:00am - 9:50am	Seats (Total: 0) VMH 1511
0201	Charles Olson **Meets August 27, 2018 - October 15, 2018** MW 10:00am - 11:50am	Seats (Total: 0) VMH 1511

BUSM706 **Innovation & Product Development**

(Perm req)

Credits: 2 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUMO758P or BUSM706.

Focuses on the development of innovations - new products or new services - from the perspective of a marketer. For an innovation to be successful in the market, it has to be customer-centric: hence, in this course, we study how to develop and bring to market elegant and efficient solutions to strong customer needs. This is a fundamental business challenge, faced while working in a startup or in an established company; when developing a new product or a new service; and when serving customers who are individuals or large corporations.

0101	Yogesh Joshi **Meets October 22, 2018 - December 11, 2018** TuTh 2:00pm - 3:50pm	Seats (Total: 0) VMH 1520

BUSM708 **Independent Study in Business**

(Perm req)

Credits: 1-6 Grading Method: Regular

Independent study for Masters students in Business.

0101	Shreevardhan Lele **Meets August 27, 2018 - October 15, 2018** Contact instructor or department for details.	Seats (Total: 10)
0201	Shreevardhan Lele **Meets October 22, 2018 - December 11, 2018** Contact instructor or department for details.	Seats (Total: 10)
0301	Instructor: TBA Contact instructor or department for details.	Seats (Total: 10)
0401	Instructor: TBA Contact instructor or department for details.	Seats (Total: 10)
0501	Instructor: TBA Contact instructor or department for details.	Seats (Total: 10)
0601	Instructor: TBA Contact instructor or department for details.	Seats (Total: 10)
0701	Instructor: TBA Contact instructor or department for details.	Seats (Total: 10)
0801	Instructor: TBA Contact instructor or department for details.	Seats (Total: 10)
0901	Instructor: TBA Contact instructor or department for details.	Seats (Total: 10)
1001	Instructor: TBA Contact instructor or department for details.	Seats (Total: 10)

BUSM708A **Independent Study in Business**

(Perm req)

Credits: 1-6 Grading Method: Regular

Independent study for Masters students in Business.

0101	Shreevardhan Lele	Seats (Total: 10)
	Meets October 22, 2018 - December 11, 2018	
	Contact instructor or department for details.	

BUSM710 **Advanced Marketing Analytics Models**

(Perm req)

Credits: 2 Grading Method: Regular

Prerequisite: BUSM612. Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUMK706 or BUSM705.

Introduction to modeling tools used to support marketing analysis and decision making. Applications in strategic marketing, marketing segmentation, new product development, sales promotion analysis, pricing, design of marketing mix, sales force allocation, and direct marketing. Spreadsheet driven cases and illustrative readings.

0101	Jie Zhang	Seats (Total: 0)
	Meets August 27, 2018 - October 15, 2018	
	MW 2:00pm - 3:50pm	VMH 2511

BUSM711 **Pricing Strategies for Sustainable Competitive Advantage**

(Perm req)

Credits: 2 Grading Method: Regular

Prerequisite: BUSM612. Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business.

Pricing is one of the most important marketing decisions a firm faces. This course will help participants to develop pricing strategies using actual proven concepts, processes and techniques, to align pricing strategies with corporate goals and objectives, to determine the value customers assign to products and services using competitive pricing analysis, and to optimize pricing using customer segmenting strategies. The course will focus on both economic and behavioral aspects of pricing, and evaluation of innovative pricing practices such as price matching, customized pricing, bundle pricing and product line pricing, covering both B2B and B2C markets. Instruction will be through a mix of case studies, pricing simulation games, hands-on exercises and discussions. The course will provide participants with an in-depth understanding of state-of-the-art pricing strategies, practices and techniques for making profitable and sustainable pricing decisions.

0101	Bo Zhou	Seats (Total: 0)
	Meets October 22, 2018 - December 11, 2018	
	MW 2:00pm - 3:50pm	VMH 2511

BUSM738A **Investment Fund Management; Mayer Fund**

(Perm req)

Credits: 3 Grading Method: Regular

Provides second-year Master in Business Administration students with the opportunity to apply the skills learned in finance classes to actual investment decisions through management of an investment fund.

Contact department for information to register for this course.

BUSM741 **Financial Restructuring**

(Perm req)

Credits: 2 Grading Method: Regular

Prerequisite: BUSM610. Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUFN752 or BUSM741.

Focuses on identifying ways to increase firm value through corporate restructuring. Specific topics include: mergers and tender offers, spin-offs, carve-outs, divestitures, takeover defense strategies, leveraged buy-outs, and international acquisitions. Additionally, the theory, practice and empirical evidence related to each of these topics will be covered. Emphasis will be placed on valuation analysis and strategic considerations.

0101	James Seward	Seats (Total: 0)
	Meets August 27, 2018 - October 15, 2018	
	MW 2:00pm - 3:50pm	VMH 1505

BUSM743 **Entrepreneurial Finance and Private Equity**

(Perm req)

Credits: 2 Grading Method: Regular

Prerequisite: BUSM610. Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUFN755 or BUSM743.

An advanced topics course in Corporate Finance. The major emphasis is how financiers help growing firms - and in particular young start-ups - using different types of securities at different points in the industry's and firm's life. Financing arrangements and securities studied will include private equity funds and private financings placements, Venture Capital (VC) and preferred equity, Investment Banks through Initial Public Offerings (IPOs), Private equity finds, debt and leveraged buyouts. Students will learn additional techniques that will help them understand how financiers value firms and how to understand, plan and value different financing strategies.

0101	James Campbell **Meets October 22, 2018 - December 11, 2018** MW 2:00pm - 3:50pm	Seats (Total: 0) VMH 1505

BUSM752 **Games of Strategy and Incentives**

Credits: 4 Grading Method: Regular

Prerequisite: Permission of BMGT-Robert H. Smith School of Business. Or BUSM610; and BUSM604; and BUSM614. Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business.

Analysis of managerial decisions in strategic environments using tools from game theory; competition and cooperation in product markets; principal-agent model and the economics of incentives; analytical foundations of behavioral constructs such as reputation, commitment and credibility.

0101	Shreevardhan Lele **Meets August 27, 2018 - December 11, 2018** TuTh 10:00am - 11:50am	Seats (Total: 0) VMH 1505
0201	Shreevardhan Lele **Meets August 27, 2018 - December 11, 2018** TuTh 10:00am - 11:50am	Seats (Total: 27) VMH 1505

BUSM758A **Special Topics in Business; Angel Investing**

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in business.

0101	Joseph Bailey **Meets August 27, 2018 - December 11, 2018** F 10:00am - 11:50am	Seats (Total: 20) VMH 2509

BUSM758C **Special Topics in Business; Financial Statement Analysis**

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in business.

0101	Nicholas Seybert **Meets October 22, 2018 - December 11, 2018** MW 10:00am - 11:50am	Seats (Total: 0) VMH 1511
0201	Nicholas Seybert **Meets October 22, 2018 - December 11, 2018** MW 8:00am - 9:50am	Seats (Total: 0) VMH 1511

BUSM758Q **Special Topics in Business; Project Management**

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in business.

0101	Anand Anandalingam **Meets August 27, 2018 - October 15, 2018** TuTh 2:00pm - 3:50pm	Seats (Total: 0) VMH 1518

BUSM758R **Special Topics in Business; Revenue Management**

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in business.

0101	Yi Xu **Meets October 22, 2018 - December 11, 2018** TuTh 2:00pm - 3:50pm	Seats (Total: 0) VMH 1518

BUSM758T **Special Topics in Business; Digital Marketing**

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in business.

0101	Pallassana Kannan	Seats (Total: 0)
	Meets August 27, 2018 - October 15, 2018	
	TuTh 2:00pm - 3:50pm	VMH 1520

BUSM758V **Special Topics in Business; Supply Chain Management Experience**

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in business.

0101	Philip Evers	Seats (Total: 0)
	Meets August 27, 2018 - December 11, 2018	
	TuTh 4:00pm - 5:50pm	VMH 1518

BUSM758W **Special Topics in Business; Managing Others**

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in business.

0101	Neta Moye	Seats (Total: 35)
	Meets August 27, 2018 - December 11, 2018	
	F 2:00pm - 3:50pm	VMH 1335

BUSM758X **Special Topics in Business; Process Improvement**

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in business.

0101	Humberto Coronado	Seats (Total: 0)
	Meets October 22, 2018 - December 11, 2018	
	MW 2:00pm - 3:50pm	VMH 2505

BUSM775 **Global Strategy**

Credits: 2 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUMO754 or BUSM775.

Focuses on the "strategic" and "organizational" questions that a company must address as it globalizes its footprint. Among the questions that will be addressed are: What are the potential benefits, costs, and risks associated with going abroad? What differentiates a "global" from a "multidomestic" industry? What are the sources of competitive advantage in a global context?

0101	Paulo Prochno	Seats (Total: 0)
	Meets August 27, 2018 - October 15, 2018	
	MW 2:00pm - 3:50pm	VMH 1330

BUSM778B **Introduction to Global Business Experience; Doing Business in Brazil**

Credits: 2 Grading Method: Regular

Introduction to the economic climate of the country and region, history political influences on business landscape, and specific opportunities and threats of doing business in the destination country. Course is a prerequisite to short-term study abroad classes.

GL01	Paulo Prochno	Seats (Total: 12)
	Su 12:00pm - 2:00pm	VMH 1303

BUSM778C **Introduction to Global Business Experience; Doing Business in China**

Credits: 2 Grading Method: Regular

Introduction to the economic climate of the country and region, history political influences on business landscape, and specific opportunities and threats of doing business in the destination country. Course is a prerequisite to short-term study abroad classes.

GL01	Zhi-Long Chen	Seats (Total: 4)
	Su 12:00pm - 2:00pm	VMH 1307

BUSM778J **Introduction to Global Business Experience; Doing Business in South Africa**

Credits: 2 Grading Method: Regular

Introduction to the economic climate of the country and region, history political influences on business landscape, and specific opportunities and threats of doing business in the destination country. Course is a prerequisite to short-term study abroad classes.

GL01	Bennet Zelner	Seats (Total: 5)
	Su 12:00pm - 2:00pm	VMH 1330

BUSM778M **Introduction to Global Business Experience; Doing Business in the UAE**

Credits: 2 Grading Method: Regular

Introduction to the economic climate of the country and region, history political influences on business landscape, and specific opportunities and threats of doing business in the destination country. Course is a prerequisite to short-term study abroad classes.

GL01	Hassan Ibrahim	Seats (Total: 6)
	Su 12:00pm - 2:00pm	VMH 1333

BUSM778Y **Introduction to Global Business Experience; Doing Business in Japan and Singapore**

Credits: 2 Grading Method: Regular

Introduction to the economic climate of the country and region, history political influences on business landscape, and specific opportunities and threats of doing business in the destination country. Course is a prerequisite to short-term study abroad classes.

GL01	Cristian Dezso	Seats (Total: 4)
	Su 12:00pm - 2:00pm	VMH 1335

BUSM798C **Business Consulting; Technology Entrepreneurship**

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in business.

0101	Brent Goldfarb	Seats (Total: 20)
	Meets August 27, 2018 - December 11, 2018	
	F 12:00pm - 1:50pm	VMH 1333

BUSM798Q **Business Consulting; Business Problem Solving Practicum**

(Perm req)

Credits: 4 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in business.

0101	Nicole Coomber **Meets August 27, 2018 - December 11, 2018** TuTh 8:00am - 9:50am	Seats (Total: 30) VMH 2505

CBMG Cell Biology & Molecular Genetics Fall 2018

CBMG688A **Special Topics in Cell Biology and Molecular Genetics; Research Experiences**

Credits: 2 Grading Method: Regular, Audit

Presentation and discussion of fundamental problems and special subject in the topics of Cell Biology and Molecular Genetics.

0101	Kevin McIver Tu 12:00pm - 3:00pm Contact instructor or department for details.	Seats (Total: 20) MCB 2119
0201	Stephen Mount Contact instructor or department for details.	Seats (Total: 20)

CBMG688D **Special Topics in Cell Biology and Molecular Genetics; Genetics: Cell Biology I - Structure and Function**

Credits: 2 Grading Method: Regular, Audit

Presentation and discussion of fundamental problems and special subject in the topics of Cell Biology and Molecular Genetics.

0101	Sougata Roy, Wenxia Song **Meets October 15, 2018 - December 10, 2018** TuTh 4:00pm - 6:00pm	Seats (Total: 30) MCB 1207

CBMG688J **Special Topics in Cell Biology and Molecular Genetics; Genetics: Immunology and Host Defense**

Credits: 2 Grading Method: Regular, Audit

Presentation and discussion of fundamental problems and special subject in the topics of Cell Biology and Molecular Genetics.

0101	Roy Mariuzza, David Mosser **Meets August 27, 2018 - October 12, 2018** MW 4:00pm - 6:00pm	Seats (Total: 20) MCB 2119

CBMG688K **Special Topics in Cell Biology and Molecular Genetics; Genetics: Molecular Virology**

Credits: 2 Grading Method: Regular, Audit

Presentation and discussion of fundamental problems and special subject in the topics of Cell Biology and Molecular Genetics.

0101	Jeffrey DeStefano, Margaret Scull **Meets October 15, 2018 - December 10, 2018** MW 3:00pm - 5:00pm	Seats (Total: 20) BRB 1210

CBMG688P **Special Topics in Cell Biology and Molecular Genetics; Programming for Biology**

Credits: 2 Grading Method: Regular, Audit

Presentation and discussion of fundamental problems and special subject in the topics of Cell Biology and Molecular Genetics.

0101	Najib El-Sayed, Stephen Mount **Meets October 15, 2018 - December 10, 2018** MW 2:00pm - 3:50pm	Seats (Total: 12) MCB 2119

CBMG688Y **Special Topics in Cell Biology and Molecular Genetics; Bioinformatics and Genomics**

Credits: 2 Grading Method: Regular, Audit

Presentation and discussion of fundamental problems and special subject in the topics of Cell Biology and Molecular Genetics.

0101	Najib El-Sayed, Michael Cummings **Meets August 27, 2018 - October 12, 2018** TuTh 9:00am - 10:50am	Seats (Total: 30) BSB 3118

CBMG699 **Special Problems in Cell Biology and Molecular Genetics**

Credits: 1-3 Grading Method: Regular, Audit

Emphasis is placed on research and discussion of current problems in th area of Cell Biology and Molecular Genetics.

Contact department for information to register for this course.

CBMG699D **Special Problems in Cell Biology and Molecular Genetics; Molecular Genetics: Bioinformatics and Computation Biology**

Credits: 1 Grading Method: Regular, Audit

Emphasis is placed on research and discussion of current problems in th area of Cell Biology and Molecular Genetics.

0101	Stephen Mount	Seats (Total: 20)
	Contact instructor or department for details.	

CBMG699K **Special Problems in Cell Biology and Molecular Genetics; Biological Sciences Teaching and Learning in Higher Education**

(Perm req)

Credits: 2 Grading Method: Regular

Emphasis is placed on research and discussion of current problems in th area of Cell Biology and Molecular Genetics.

Also offered as BIOL608K, CHEM608K, and ENTM699K. Credit will be granted for only one of the following: BIOL608K, CBMG699K, CHEM608K, or ENTM699K.

0101	Gili Ad-Marbach	Seats (Total: 12)
	W 12:00pm - 1:40pm	BPS 1208

CBMG699X **Special Problems in Cell Biology and Molecular Genetics; Host Pathogen Interactions**

Credits: 1 Grading Method: Regular, Audit

Emphasis is placed on research and discussion of current problems in th area of Cell Biology and Molecular Genetics.

0101	David Mosser	Seats (Total: 20)
	F 9:00am - 10:30am	MCB 2119

CBMG699Y **Special Problems in Cell Biology and Molecular Genetics; Plant Cell Biology Journal Club**

Credits: 1 Grading Method: Regular, Audit

Emphasis is placed on research and discussion of current problems in th area of Cell Biology and Molecular Genetics.

0101	Zhongchi Liu	Seats (Total: 20)
	M 11:00am - 12:00pm	BRB 3101

CBMG699Z **Special Problems in Cell Biology and Molecular Genetics; Protein Translation**

Credits: 1 Grading Method: Regular, Audit

Emphasis is placed on research and discussion of current problems in th area of Cell Biology and Molecular Genetics.

0101	Jonathan Dinman	Seats (Total: 20)
	F 9:30am - 10:30am	MCB 1121

CBMG799 **Masters Thesis Research**

Credits: 1-6 Grading Method: Regular, Sat-Fail

Master's Thesis Research in Cell Biology and Molecular Genetics.

Contact department for information to register for this course.

CBMG898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Pre-candidacy Research.

Contact department for information to register for this course.

CBMG899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

Doctoral Dissertation Research.

Contact department for information to register for this course.

CCJS Criminology and Criminal Justice Fall 2018

CCJS100 **Introduction to Criminal Justice**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: SB	General Education: DSHS

Introduction to the administration of criminal justice in a democratic society, with emphasis on the theoretical and historical development of law enforcement. The principles of organization and administration for law enforcement; functions and specific activities; planning and research; public relations; personnel and training; inspection and control; direction; policy formulation.

0101	Justine Madoo MW 9:00am - 9:50am M 10:00am - 10:50am	Seats (Total: 30) SKN 0200 KNI 1105	Discussion
0102	Justine Madoo MW 9:00am - 9:50am M 11:00am - 11:50am	Seats (Total: 30) SKN 0200 KNI 1105	Discussion
0103	Justine Madoo MW 9:00am - 9:50am M 12:00pm - 12:50pm	Seats (Total: 30) SKN 0200 HBK 1112	Discussion
0104	Justine Madoo MW 9:00am - 9:50am M 1:00pm - 1:50pm	Seats (Total: 30) SKN 0200 JMZ 0208	Discussion
0105	Justine Madoo MW 9:00am - 9:50am W 10:00am - 10:50am	Seats (Total: 30) SKN 0200 JMZ 0208	Discussion
0106	Justine Madoo MW 9:00am - 9:50am W 11:00am - 11:50am	Seats (Total: 30) SKN 0200 TYD 2110	Discussion
0107	Justine Madoo MW 9:00am - 9:50am W 12:00pm - 12:50pm	Seats (Total: 30) SKN 0200 HBK 1112	Discussion
0108	Justine Madoo MW 9:00am - 9:50am W 1:00pm - 1:50pm	Seats (Total: 30) SKN 0200 JMZ 0208	Discussion
0201	Justine Madoo MW 12:00pm - 12:50pm Tu 9:30am - 10:20am	Seats (Total: 30) LEF 2205 LEF 1220	Discussion

0202	Justine Madoo MW 12:00pm - 12:50pm Tu 8:30am - 9:20am	Seats (Total: 30) LEF 2205 ASY 3219	Discussion
0203	Justine Madoo MW 12:00pm - 12:50pm Tu 12:30pm - 1:20pm	Seats (Total: 30) LEF 2205 ASY 3219	Discussion
0204	Justine Madoo MW 12:00pm - 12:50pm Tu 11:00am - 11:50am	Seats (Total: 30) LEF 2205 TWS 1320	Discussion
0205	Justine Madoo MW 12:00pm - 12:50pm Th 8:30am - 9:20am	Seats (Total: 30) LEF 2205 ASY 3219	Discussion
0206	Justine Madoo MW 12:00pm - 12:50pm Th 11:00am - 11:50am	Seats (Total: 30) LEF 2205 TWS 1320	Discussion
0207	Justine Madoo MW 12:00pm - 12:50pm Th 9:30am - 10:20am	Seats (Total: 30) LEF 2205 ASY 3219	Discussion
0208	Justine Madoo MW 12:00pm - 12:50pm Th 12:30pm - 1:20pm	Seats (Total: 30) LEF 2205 ESJ B0320	Discussion
FC01	Kyle Dorsey MW 6:00pm - 7:15pm *Restricted to students in Freshman Connection.*	Seats (Total: 45) TWS 1100	

CCJS105 **Introduction to Criminology**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS

Criminal behavior and the methods of its study; causation; typologies of criminal acts and offenders; punishment, correction and incapacitation; prevention of crime.

0101	Katie Zafft MW 10:00am - 10:50am Th 1:00pm - 1:50pm	Seats (Total: 30) SKN 0200 HJP 2242	Discussion
0102	Katie Zafft MW 10:00am - 10:50am Th 1:00pm - 1:50pm	Seats (Total: 30) SKN 0200 HJP 2242	Discussion
0103	Katie Zafft MW 10:00am - 10:50am Th 2:00pm - 2:50pm	Seats (Total: 30) SKN 0200 ESJ 0215	Discussion
0104	Katie Zafft MW 10:00am - 10:50am Th 2:00pm - 2:50pm	Seats (Total: 30) SKN 0200 ESJ 0215	Discussion
0105	Katie Zafft MW 10:00am - 10:50am F 11:00am - 11:50am	Seats (Total: 30) SKN 0200 ESJ 1215	Discussion
0106	Katie Zafft MW 10:00am - 10:50am F 11:00am - 11:50am	Seats (Total: 30) SKN 0200 ESJ 1215	Discussion
0107	Katie Zafft MW 10:00am - 10:50am F 12:00pm - 12:50pm	Seats (Total: 30) SKN 0200 ESJ 1215	Discussion
0108	Katie Zafft MW 10:00am - 10:50am F 12:00pm - 12:50pm	Seats (Total: 30) SKN 0200 ESJ 1215	Discussion
0201	Katie Zafft TuTh 12:30pm - 1:20pm W 9:00am - 9:50am	Seats (Total: 30) SKN 0200 HBK 0123	Discussion
0202	Katie Zafft TuTh 12:30pm - 1:20pm Tu 8:30am - 9:20am	Seats (Total: 30) SKN 0200 KEY 0121	Discussion

0203	Katie Zafft TuTh 12:30pm - 1:20pm Tu 2:00pm - 2:50pm	Seats (Total: 30) SKN 0200 JMZ 1224	Discussion
0204	Katie Zafft TuTh 12:30pm - 1:20pm Tu 3:00pm - 3:50pm	Seats (Total: 30) SKN 0200 MTH 0405	Discussion
0205	Katie Zafft TuTh 12:30pm - 1:20pm W 12:00pm - 12:50pm	Seats (Total: 30) SKN 0200 KEY 0121	Discussion
0206	Katie Zafft TuTh 12:30pm - 1:20pm Th 8:30am - 9:20am	Seats (Total: 30) SKN 0200 TLF 1103	Discussion
0207	Katie Zafft TuTh 12:30pm - 1:20pm W 1:00pm - 1:50pm	Seats (Total: 30) SKN 0200 KEY 0121	Discussion
0208	Katie Zafft TuTh 12:30pm - 1:20pm Th 3:00pm - 3:50pm	Seats (Total: 30) SKN 0200 KEY 0121	Discussion
FC01	Jessica Deitzer MW 4:30pm - 5:45pm	Seats (Total: 32) TYD 2111	

CCJS200 **Statistics for Criminology and Criminal Justice**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: FSAR

Prerequisite: CCJS100 or CCJS105. And 1 course with a minimum grade of C- from (STAT100, MATH107, MATH111, MATH120, MATH130, MATH135, MATH140); or must have completed MATH220 with a minimum grade of C-. Restriction: Must be in Criminology and Criminal Justice program; or permission of BSOS-Criminology & Criminal Justice department. Credit only granted for: BIOM301, BMGT230, CCJS200, ECON230, ECON321, EDMS451, GEOG306, GEOL351, GVPT422, INST314, JOUR405, PSYC200 or SOCY201. (These courses do not necessarily meet the same major requirements-check with your advisor to see which of these courses will count for your major).

Introduction to descriptive and inferential statistics, graphical techniques, and the computer analysis of criminology and criminal justice data. Basic procedures of hypothesis testing, correlation and regression analysis, and the analysis of continuous and binary dependent variables. Emphasis upon the examination of research problems and issues in criminology and criminal justice.

0201	Alan Lehman TuTh 9:30am - 10:45am Th 2:00pm - 2:50pm	Seats (Total: 35) LEF 2205 AJC 2134	Discussion
0202	Alan Lehman TuTh 9:30am - 10:45am Th 3:00pm - 3:50pm	Seats (Total: 35) LEF 2205 PLS 1111	Discussion
0203	Alan Lehman TuTh 9:30am - 10:45am F 11:00am - 11:50am	Seats (Total: 35) LEF 2205 SQH 1105	Discussion
0204	Alan Lehman TuTh 9:30am - 10:45am F 12:00pm - 12:50pm	Seats (Total: 35) LEF 2205 SQH 1103	Discussion
0205	Alan Lehman TuTh 9:30am - 10:45am Th 1:00pm - 1:50pm	Seats (Total: 30) LEF 2205 LEF 0135	Discussion
0206	Alan Lehman TuTh 9:30am - 10:45am F 1:00pm - 1:50pm	Seats (Total: 30) LEF 2205 SQH 1103	Discussion

CCJS225 **Responses to Violence**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, DSSP, SCIS

Conflict is unfortunately resolved through violence in a number of settings. It ranges from interpersonal to international in its scope. This course investigates the strengths and weakness of a number of resolutions to reducing violence over the course of history using both state centered and informal control.

0101	Min Xie MW 2:00pm - 3:15pm	Seats (Total: 50) LEF 2166	
0201	Katie Zafft MWF 11:00am - 11:50am	Seats (Total: 50) HJP 2242	

CCJS230 **Criminal Law in Action**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CCJS100.

Law as one of the methods of social control. Criminal law: its nature, sources and types; theories and historical developments. Behavioral and legal aspects of criminal acts. Classification and analysis of selected criminal offenses.

0101	Christine White MWF 10:00am - 10:50am	Seats (Total: 100) SQH 1120
0201	Russell Hamill W 4:00pm - 6:30pm	Seats (Total: 100) KEY 0106

CCJS234 **Law of Criminal Investigation**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CCJS100 and CCJS230.

General principles and theories of criminal procedure. Due process. Arrest, search and seizure. Recent developments. Study and evaluation of evidence and proof.

0101	David Salem Th 6:00pm - 8:30pm	Seats (Total: 100) TYD 0117

CCJS300 **Criminological and Criminal Justice Research Methods**

(Perm req)

Credits: 3

Grading Method: Regular

General Education: DSSP

Prerequisite: CCJS100 and CCJS105; and (PSYC200, CCJS200, ECON321, BMGT230, or SOCY201).

Introduction to the formulation of research questions covering crime and justice, research designs, data collection, and interpretation and reporting in criminological and justice-system settings.

0101	Laure Brooks MWF 9:00am - 9:50am	Seats (Total: 60) LEF 2166
0201	Laure Brooks MWF 11:00am - 11:50am	Seats (Total: 60) LEF 2166
0301	Alan Lehman TuTh 12:30pm - 1:45pm	Seats (Total: 60) LEF 2166

0401	Alan Lehman TuTh 11:00am - 12:15pm	Seats (Total: 60) LEF 2166
SG91	Wendy Stickle W 9:30am - 12:00pm *Restricted to CCJS students at Shady Grove.*	Seats (Total: 40) BLD2 1022

CCJS310 **Criminal Investigations**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CCJS100 and CCJS230.

An introduction to modern methods used in detection, investigation, and solution of crime. Students will be taught basic and advanced investigative techniques utilized by law enforcement agencies. Analysis of actual cases will be used to demonstrate practical uses of these techniques.

SG91	Shawn Eastman Th 11:00am - 1:30pm *Restricted to CCJS students at Shady Grove.*	Seats (Total: 30) BLD3 3242
SG92	Charles Jordan Th 9:30am - 12:00pm *Registration is restricted to Biological Sciences-Shady Grove majors. Permission is required for all other students to enroll in courses at Shady Grove. Please email usgbiosci@umd.edu for permission.*	Seats (Total: 40) BLD2 3062

CCJS320 **Introduction to Criminalistics**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CCJS100 and CCJS230.

An introduction to modern methods used in the detection, investigation and solution of crimes. Practical analysis of evidence in a crime laboratory, including fingerprints and other impressions, firearms ID and ballistics, hairs and fibers, document examination, and use of polygraph.

Students must pay a $53.00 lab fee.

0101	Thomas Mauriello Class time/details on ELMs M 11:00am - 1:45pm	Seats (Total: 24) ONLINE MMH 2401	 Lab

0102	Thomas Mauriello Class time/details on ELMs M 2:30pm - 5:15pm	Seats (Total: 24) ONLINE MMH 2401	 Lab
0103	Thomas Mauriello Class time/details on ELMs M 6:00pm - 8:45pm	Seats (Total: 24) ONLINE MMH 2401	 Lab

CCJS325 **Slavery in the Twenty First Century: Combating Human Trafficking**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, SCIS

Credit only granted for: CCJS325 or CCJS498R. Formerly: CCJS498R.

The trafficking of human beings in its historical, legal, economic, political and social contexts. Scope of the global problem, different forms of human trafficking, and regional trends and practices. Roles of government, the international community and individual actors. Strategies to combat trafficking.

0101	Christine White W 2:00pm - 4:30pm	Seats (Total: 60) ESJ 0215
0201	Christine White M 2:00pm - 4:30pm	Seats (Total: 60) ESJ 0215
SG91	Louis Morlier W 3:30pm - 4:45pm Class time/details on ELMs *Registration is restricted to Biological Sciences- Shady Grove majors. Permission is required for all other student to enroll in courses at Shady Grove. Please email usgbiosci@umd.edu for permission.*	Seats (Total: 40) BLD2 3022 ONLINE

CCJS340 **Policing**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CCJS100.

Critical issues relating to policing. Topics include police discretion, role of police, use of force, misconduct, police research, administration, personnel, and etc.

0101	Laure Brooks MWF 10:00am - 10:50am	Seats (Total: 100) TYD 0117

0201	David Mitchell TuTh 2:00pm - 3:15pm	Seats (Total: 75) PLS 1130
SG91	Nicole Romeiser Tu 11:00am - 1:30pm *Restricted to CCJS students at Shady Grove.*	Seats (Total: 40) BLD3 3206

CCJS342 **Corrections**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CCJS100. Restriction: Must be in a major within the BSOS-Criminology & Criminal Justice department. Credit only granted for: CCJS342 or CCJS452.

Examination of the American correctional system. Identification of historical and contemporary themes, issues, and trends. Evaluation of correctional policies, practices and research.

0101	Sarah Tahamont TuTh 11:00am - 12:15pm	Seats (Total: 50) ARC 1101
0201	Lauren Porter MW 2:00pm - 3:15pm	Seats (Total: 60) ASY 1213

CCJS345 **Courts and Sentencing**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CCJS100. Restriction: Must be in a major within the BSOS-Criminology & Criminal Justice department.

Contemporary issues in the American court system such as prosecution, sentencing and punishment. Theoretical perspectives on courtroom decision-making integrated with empirical research. Courts and sentencing processes, including initial charging, pretrial detention and final sentencing outcomes. Innovations in courts and sentencing.

0101	Alan Drew TuTh 9:30am - 10:45am	Seats (Total: 60) LEF 2166
SG91	Alan Drew W 12:30pm - 3:00pm *Limit to CCJS students at Shady Grove.*	Seats (Total: 40) BLD3 2226

CCJS346 **Domestic Violence**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CCJS100. Credit only granted for: CCJS346 or CCJS498Y. Formerly: CCJS498Y.

A thorough and critical examination of family violence. Topics include the historical background to family violence, methods of studying this serious issue, elder abuse, child abuse, the cultural factors involved in intimate partner violence, violence in same-sex relationships, and the criminal justice response to family violence. Although the course focuses on the American family, illustrations from other cultures are provided.

SG91	Nicole Romeiser	Seats (Total: 35)
	M 11:00am - 1:30pm	Location: TBA
	Restricted to Public Health Science students at Shady Grove.	

CCJS358B **Special Topics in Study Abroad III; Criminology in Scandanavia**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CCJS358E **Special Topics in Study Abroad III; Drugs and Drug Prevention in Central Europe**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CCJS359 **Field Training in Criminology and Corrections**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

Supervised field training in public or private social agencies. Group meetings, individual conferences and written program reports.

Prerequisites: CCJS 105 or CRIM 220; and CCJS 350 or CRIM 450; and permission of department. For majors only.

Contact department for information to register for this course.

CCJS360 **Victimology**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CCJS105.

Overview of the history and theory of victimology. Analysis of victimization patterns with special emphasis on types of victims and crimes. The interaction between victims of crime and the criminal justice system with respect to the role of the victim and the services offered to the victim.

0101	Cortney Fisher	Seats (Total: 100)
	TuTh 5:00pm - 6:15pm	JMZ 0220

CCJS370 **Race, Crime and Criminal Justice**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

, D

General Education: DVUP

Prerequisite: CCJS100.

Role and treatment of racial/ethnic minorities in the criminal justice system. Course will provide students with historical and theoretical framework for understanding this dynamic.

0101	Christine White	Seats (Total: 75)
	MWF 12:00pm - 12:50pm	SQH 1120

CCJS386 **Experiential Learning**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail

Restriction: Permission of BSOS-Criminology & Criminal Justice department; and junior standing or higher.

Contact department for information to register for this course.

CCJS398 **Law Enforcement Field Training**

(Perm req)

Credits: 1-6

Grading Method: Regular, Pass-Fail, Audit

Supervised, structured and focused field training in law enforcement agencies.

Prerequisite: junior standing. For majors only.

Contact department for information to register for this course.

CCJS399 **Independent Study in Criminology and Criminal Justice**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Integrated reading or research under direction and supervision of a faculty member.

Prerequisite: written consent of faculty under whose direction the study is to be performed, and at least twelve hours of CCJS credits.

Contact department for information to register for this course.

CCJS418D **Seminar in Criminology and Criminal Justice; Evolving Legal Issues**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Selected topics of interest in the field of Criminology and Criminal Justice will be covered.

Prerequisite: CCJS100 and CCJS230.

0101	David Salem	Seats (Total: 50)
	W 6:00pm - 8:30pm	KEY 0103

CCJS444 **Advanced Law Enforcement Administration**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CCJS100 and CCJS340.

The structuring of manpower, material, and systems to accomplish the major goals of social control. Personnel and systems management. Political controls and limitations on authority and jurisdiction.

0101	Russell Hamill	Seats (Total: 50)
	M 5:00pm - 7:30pm	TYD 1118

CCJS450 **Advanced Juvenile Delinquency**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CCJS105 and CCJS300. Credit only granted for: CCJS350 or CCJS450.

Examination of juvenile delinquency in the United States. Nature and extent of juvenile delinquency, historical approaches, sociological and criminological theories and research, social contexts including the institutions of families, schools, and peers, and social responses. Prevention, punishment, and treatment programs, both within and outside of the juvenile justice and criminal justice systems.

0101	Justine Madoo TuTh 11:00am - 12:15pm	Seats (Total: 50) TYD 2106

CCJS451 **Crime and Delinquency Prevention**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CCJS105 and CCJS300.

Methods and programs in prevention of crime and delinquency.

0101	Katie Zafft TuTh 9:30am - 10:45am	Seats (Total: 50) SQH 1117
0201	Katie Zafft Class time/details on ELMs	Seats (Total: 50) ONLINE
SG91	Thomas Alexander M 11:00am - 1:30pm *Limit to CCJS students at Shady Grove.*	Seats (Total: 40) BLD3 2226

CCJS453 **White Collar and Organized Crime**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CCJS300; and (CCJS350 or CCJS105).

Definition, detection, prosecution, sentencing and impact of white collar and organized crime. Special consideration given to the role of federal law and enforcement practices.

SG91	Alan Drew M 11:00am - 1:30pm *Restricted to CCJS students at Shady Grove.*	Seats (Total: 30) BLD3 2203

CCJS454 **Contemporary Criminological Theory**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CCJS300 and CCJS105.

Examination of the main theoretical accounts that explain the underlying causes of criminal behaviors. Explore how individual choices, socialization experiences, biological factors and social structure affect criminal behaviors.

0101	Wade Jacobsen MWF 10:00am - 10:50am	Seats (Total: 50) HJP 2242

CCJS455 **Dynamics of Planned Change in Criminal Justice I**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CCJS300. Restriction: Permission of BSOS-Criminology & Criminal Justice department.

An examination of conceptual and practical issues related to planned change in criminal justice. Emphasis on the development of innovative ideas using a research and development approach to change.

SG91	Wendy Stickle Contact instructor or department for details.	Seats (Total: 6)

CCJS489H **Honors Thesis Research**

(Perm req)

Credits: 3 Grading Method: Regular

Designed for students completing their honors thesis.

0101	James Lynch W 4:00pm - 6:45pm	Seats (Total: 20) JMZ 0118

CCJS498E **Selected Topics in Criminology and Criminal Justice; Social Construction of Homicide**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics of special interest to advanced undergraduates in criminology an criminal justice. Offered in response to student request and faculty interest.

SG91	Thomas Alexander M 2:00pm - 4:30pm *Restricted to CCJS students at Shady Grove.*	Seats (Total: 30) BLD3 2203

CCJS498G **Selected Topics in Criminology and Criminal Justice; Gangs**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Topics of special interest to advanced undergraduates in criminology an criminal justice. Offered in response to student request and faculty interest.

Prerequisite: CCJS100 and CCJS105.

0101	Justine Madoo	Seats (Total: 50)
	TuTh 12:30pm - 1:45pm	TYD 1118

CCJS498I **Selected Topics in Criminology and Criminal Justice; Digital Forensics**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Topics of special interest to advanced undergraduates in criminology an criminal justice. Offered in response to student request and faculty interest.

SG91	John Conroy	Seats (Total: 30)
	W 12:30pm - 3:00pm	BLD3 3242
	Limit to CCJS students at Shady Grove.	

CCJS498K **Selected Topics in Criminology and Criminal Justice; Child Abuse Investigations**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Topics of special interest to advanced undergraduates in criminology an criminal justice. Offered in response to student request and faculty interest.

SG91	Louis Morlier	Seats (Total: 30)
	W 6:30pm - 9:00pm	BLD3 3225
	Limit to CCJS students at Shady Grove.	

CCJS498X **Selected Topics in Criminology and Criminal Justice; Forensic Investigations in the Criminal Justice System**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Topics of special interest to advanced undergraduates in criminology an criminal justice. Offered in response to student request and faculty interest.

SG91	Heidi Bresee Th 9:30am - 12:00pm *Limited to CCJS students at Shady Grove.*	Seats (Total: 30) BLD3 3202
SG92	Heidi Bresee Th 9:30am - 12:00pm *Limited to Public Health Science students at Shady Grove.*	Seats (Total: 10) Location: TBA

CCJS600 **Criminal Justice**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in one of the following programs (Criminology and Criminal Justice (Master's); Criminology and Criminal Justice (Doctoral)) ; or permission of BSOS-Criminology & Criminal Justice department. Formerly: CJUS600.

Current concept of criminal justice in relationship to other concepts in the field. Historical perspective. Criminal justice and social control. Operational implications. Systemic aspects. Issues of evaluation.

0101	Brian Johnson W 4:00pm - 6:45pm	Seats (Total: 20) LEF 2165E

CCJS604 **Policy Analysis Project**

(Perm req)

Credits: 3 Grading Method: Regular

An application of statistical and conceptual tools to criminal justice data in the student's area of concentration, resulting in a paper reporting the conceptualization, analytic methods and results. The topic of the independent study will be chosen through individual consultation with the instructor.

Contact department for information to register for this course.

CCJS605 **Program Evaluation for Criminal Justice**

Credits: 3 Grading Method: Regular

Credit only granted for: CCJS605 or CCJS609. Formerly: CCJS609.

Designing, implementing and evaluating programs in criminal justice. Topics include diagnosing program needs, planning and tailoring evaluation programs, program monitoring, assessing program impact, program efficiency, and the social context of evaluation.

Contact department for information to register for this course.

CCJS611 **Statistical Tools for Criminal Justice**

Credits: 3 Grading Method: Regular

An introduction to essential statistical concepts for analyzing crime and evaluating criminal justice policies. Interpreting crime trends and correlations, risk and conditional probability analysis for repeat offenders and hot spots of crime, time series analysis, experimental statistics, effect sizes, statistical power and significance.

Contact department for information to register for this course.

CCJS620 **Fundamentals of Criminological Research**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: CCJS498D or CCJS620. Formerly: CCJS498D.

Designed to help criminology students understand and apply three important components of statistics: decriptive statistics (including probability theory), fundamentals of statistical inference, and regression analysis. Course assumes familiarity with basic descriptive statistics. The emphasis of the classes on descriptive statistics is the calculation and interpretation of summary statistical measures for describing raw data. Covers the basic rules of probability and different probabilistic processes that could describe criminal activity. The sessions on fundamentals of statistical inferences are designed to provide background for executing and interpreting hypothesis tests and confidence intervals. The latter portion of the course focuses on regession analysis. Uses the statistical software, Stata.

0101	Sarah Tahamont	Seats (Total: 35)
	Tu 4:00pm - 6:45pm	LEF 2165E

CCJS650 **Research Practicum**

Credits: 3 Grading Method: Regular

Provides the opportunity for students to develop and complete a research project, which will provide information on research proficiency for the determination of advancement to doctoral candidacy

0101	Greg Midgette	Seats (Total: 20)
	Tu 4:00pm - 6:45pm	LEV 2220CC

CCJS653 **Seminar in Corrections**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: CCJS651; or students who have taken courses with comparable content may contact the department. Formerly: CRIM653.

Development, operation and future of correctional systems.

0101	Lauren Porter	Seats (Total: 20)
	Tu 4:00pm - 6:45pm	KEY 0124

CCJS654 **History of Criminological Thought**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: CCJS454; or students who have taken courses with comparable content may contact the department. Formerly: CRIM654.

A study of the development of criminological thought from antiquity to the present.

0101	Wade Jacobsen	Seats (Total: 20)
	M 4:00pm - 6:45pm	LEF 2165E

CCJS660 **Gender and Crime**

Credits: 3 Grading Method: Regular

Assumptions, biases, and relative strengths and weaknesses of theories of crime as applied to women. Criminal justice sanctioning of crimes by and against women. The course will also explore occupational segregationby gender in criminal justice professions, particularly in the fields ofpolicing, courts (attorneys and judges), and corrections (correctionalofficers and treatment staff).

0101	Sally Simpson	Seats (Total: 20)
	Th 4:00pm - 6:45pm	LEF 2165E

CCJS678F **Advanced Topics in Criminology and Criminal Justice; Criminal Law**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

An analysis of contemporary issues in criminology and criminal justice with special emphasis on research and theory developments.

Contact department for information to register for this course.

CCJS678G **Advanced Topics in Criminology and Criminal Justice; Criminal Justice System in China**

Credits: 3 Grading Method: Regular, Audit

An analysis of contemporary issues in criminology and criminal justice with special emphasis on research and theory developments.

Contact department for information to register for this course.

CCJS699 **Special Criminological Problems**

Credits: 1-3 Grading Method: Regular, Audit

Supervised study of a selected problem in the field of criminal justice.

Contact department for information to register for this course.

CCJS710 **Advanced Statistics Methods - Limited Dependent Variables**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have completed an approved doctoral level statistics course. Formerly: CRIM710.

Application of advanced data analysis strategies to criminological and criminal justice problems, with specific focus on limited dependent variables.

0101	Laura Dugan	Seats (Total: 15)
	Th 4:00pm - 6:45pm	JMZ 1224

CCJS720 **Criminal Justice System Planning: Policy Analysis for Crime Control**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have completed 1 course in research methodology; and 1 course in CCJS. Formerly: CJUS720.

System theory and method; examination of planning methods and models based primarily on a systems approach to the operations of the criminal justice system.

0101	James Lynch	Seats (Total: 20)
	W 4:00pm - 6:45pm	LEF 1201

CCJS799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

CCJS898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

CCJS899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Doctoral dissertation research in criminal justice and criminology.

Contact department for information to register for this course.

CHBE Chemical and Biomolecular Engineering Fall 2018

CHBE100 **Exploring ChBE**

Credits: 1 Grading Method: Regular

Prerequisite: Permission of instructor; and permission of ENGR-Chemical & Biomolecular Engineering department. Restriction: Must be in a major within the ENGR-Chemical & Biomolecular Engineering department.

Overview of the specializations and career paths available in chemical and biomolecular engineering. Academic planning, policies and resources will be covered including introduction to undergraduate research, study abroad, internship and co-op opportunities as well as chemical engineering student groups. A peer mentoring program will enable students to interact with successful upper-class chemical engineering students and build their chemical engineering peer network.

0101	Deborah Goldberg, Ganesh Sriram	Seats (Total: 50)	
	W 3:00pm - 3:50pm	ESJ 2212	

CHBE250 **Computer Methods in Chemical Engineering**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: CHBE101; and must have completed or be concurrently enrolled in MATH241. Restriction: Must be in a major within the ENGR-Chemical & Biomolecular Engineering department. Credit only granted for: CHBE250 or ENCH250. Formerly: ENCH250.

Algorithm development and application of software to the analysis of chemical engineering problems. File management and editing, graphics and numerical methods. Use of spreadsheets, statistics/math software and process simulators for the design of chemical process equipment.

0101	Nam Sun Wang	Seats (Total: 95)	
	TuTh 12:30pm - 1:45pm	CHE 2108	
	M 11:00am - 11:50am	CHE 2108	Discussion

CHBE301 **Chemical and Biomolecular Engineering Thermodynamics I**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHBE101; and must have completed or be concurrently enrolled in CHBE250 and MATH241. Restriction: Must be in Engineering: Chemical program; and permission of ENGR-Chemical & Biomolecular Engineering department. Credit only granted for: ENCH300 or CHBE301. Formerly: ENCH300.

Principles of thermodynamics and their application to engineering problems. First and second laws of thermodynamics, properties of gases, liquids and solids, phase equilibrium, flow and non-flow systems, energy conversion, production of work from heat, thermodynamic analysis of processes, equilibrium stage operations and the thermodynamics of chemically reacting systems.

0101	Jeffery Klauda	Seats (Total: 95)	
	TuTh 2:00pm - 3:15pm	CHE 2110	
	W 11:00am - 11:50am	CHE 2108	Discussion

CHBE333 **Chemical Engineering Seminar**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Restriction: Junior standing; and must be in a major within ENGR-Chemical & Biomolecular Engineering department; and permission of ENGR-Chemical & Biomolecular Engineering department. Credit only granted for: CHBE333 or ENCH333. Formerly: ENCH333.

To develop oral communication skills through a series of class presentations of current chemical engineering topics.

0101	Deborah Goldberg	Seats (Total: 15)
	W 12:00pm - 12:50pm	AJC 2119
0102	Deborah Goldberg	Seats (Total: 15)
	W 10:00am - 10:50am	AJC 2119
0103	Deborah Goldberg	Seats (Total: 15)
	W 11:00am - 11:50am	AJC 2119

CHBE369 **Teaching Experiences in Chemical Engineering**

Credits: 1-2 Grading Method: Regular, Pass-Fail

Students will obtain pedagogical experience by assisting with the teaching of undergraduate courses in Chemical and Biomolecular Engineering.

2003	Panagiotis Dimitrakopoulos	Seats (Total: 5)
	Contact instructor or department for details.	

2006	Srinivasa Raghavan Contact instructor or department for details.	Seats (Total: 5)
2012	Jeffery Klauda Contact instructor or department for details.	Seats (Total: 5)
2014	Ganesh Sriram Contact instructor or department for details.	Seats (Total: 5)
2029	Audaldo Ponce Contact instructor or department for details.	Seats (Total: 5)
2030	Chen Zhang Contact instructor or department for details.	Seats (Total: 5)
2041	Akua Asa-Awuku Contact instructor or department for details.	Seats (Total: 5)
2045	Deborah Goldberg Contact instructor or department for details.	Seats (Total: 5)

CHBE410 **Statistics and Design of Experiments**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in CHBE250, MATH241, and MATH246. Restriction: Must be in a major within the ENGR-Chemical & Biomolecular Engineering department; and permission of ENGR-Chemical & Biomolecular Engineering department. Credit only granted for: CHBE410 or ENCH476. Formerly: ENCH476.

An introduction to probability, statistics, and design of experiments for chemical engineers.

0101	Akua Asa-Awuku MWF 3:00pm - 3:50pm M 1:00pm - 1:50pm	Seats (Total: 100) CHE 2108 CHE 2108	 Discussion

CHBE422 **Chemical and Biomolecular Engineering Transport Phenomena I**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in CHBE101, CHBE250, MATH241, and MATH246. Restriction: Must be in a major within the ENGR-Chemical & Biomolecular Engineering department; and permission of ENGR-Chemical & Biomolecular Engineering department. Credit only granted for: CHBE422 or ENCH422. Formerly: ENCH422.

Principals of fluid dynamics as applied to model development and proces design. Mass, momentum and energy conservation. Statics and surface tension. Equation of Continuity and Navier-Stokes Equation with application to laminar flow. Dimensional analysis. Macroscopic balances, Bernoulli Equation and friction factors with application to turbulent flow.

0101	Panagiotis Dimitrakopoulos	Seats (Total: 50)	
	TuTh 3:30pm - 4:45pm	BPS 1243	
	F 1:00pm - 1:50pm	BPS 1243	Discussion
0102	Deborah Goldberg	Seats (Total: 50)	
	TuTh 2:00pm - 3:15pm	CHE 2108	
	F 1:00pm - 1:50pm	JMP 3201	Discussion

CHBE437 **Chemical and Biomolecular Engineering Laboratory**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHBE424, CHBE426, and CHBE440. Restriction: Must be in a major within ENGR-Chemical & Biomolecular Engineering department; and permission of ENGR-Chemical & Biomolecular Engineering department. Credit only granted for: CHBE437 or ENCH437. Formerly: ENCH437.

Application of chemical engineering process and unit operation principals in small-scale semi-commercial equipment. Data from experimental observations are used to evaluate performance and efficiency of operations. Emphasis on correct presentation of results inreport form.

0101	Chen Zhang, Audaldo Ponce	Seats (Total: 24)	
	M 1:00pm - 5:00pm	CHE 1145	Lab
	M 10:00am - 10:50am	CHE 2136	Discussion
0201	Chen Zhang, Audaldo Ponce	Seats (Total: 24)	
	Tu 11:00am - 3:00pm	CHE 1145	Lab
	Tu 10:00am - 10:50am	CHE 2113A	Discussion
0301	Audaldo Ponce, Chen Zhang	Seats (Total: 24)	
	Th 11:00am - 3:00pm	CHE 1145	Lab
	Th 10:00am - 10:50am	CHE 2113A	Discussion

0401	Chen Zhang, Audaldo Ponce	Seats (Total: 24)	
	F 1:00pm - 5:00pm	CHE 1145	Lab
	F 10:00am - 10:50am	CHE 2108	Discussion

CHBE440 **Chemical Kinetics and Reactor Design**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in CHBE301, MATH241, and MATH246. Restriction: Must be in Engineering: Chemical program; and permission of ENGR-Chemical & Biomolecular Engineering department. Credit only granted for: CHBE440 or ENCH440. Formerly: ENCH440.

Fundamentals of chemical reaction kinetics and their application to the design and operation of chemical reactors. Reaction rate theory, homogeneous reactions and catalysis electrochemical reactions. Catalytic reactor design.

0101	Srinivasa Raghavan	Seats (Total: 120)	
	MWF 2:00pm - 2:50pm	CHE 2110	
	W 1:00pm - 1:50pm	CHE 2110	Discussion

CHBE442 **Chemical and Biomolecular Systems Analysis**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHBE424 and CHBE426. Credit only granted for: CHBE442 or ENCH442. Formerly: ENCH442.

Dynamic response applied to process systems. Goals and modes of control Laplace transformations, analysis and synthesis of simple control systems, closed loop response, dynamic testing.

0101	Kyu Yong Choi	Seats (Total: 100)	
	MW 12:00pm - 12:50pm	CHE 2108	
	F 12:00pm - 12:50pm	CHE 2108	
	W 4:00pm - 4:50pm	CHE 2108	Discussion

CHBE444 **Process Engineering Economics and Design I**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHBE424, CHBE426, and CHBE440. Restriction: Must be in a major within the ENGR-Chemical & Biomolecular Engineering department; and permission of ENGR-Chemical & Biomolecular Engineering department. Credit only granted for: CHBE444 or ENCH444. Formerly: ENCH444.

Principles of chemical engineering economics and process design. Equipment sizing and costing. Economic evaluation of projects. Flowsheet synthesis. Introduction to flowsheet simulators and concepts of flowsheet optimization. Synthesis of Heat Exchanger Networks and Distillation Sequences.

0101	Ganesh Sriram TuTh 3:30pm - 4:45pm W 10:00am - 10:50am	Seats (Total: 40) ESJ 2208 CHE 2108	Discussion
0102	Ganesh Sriram TuTh 3:30pm - 4:45pm W 2:00pm - 2:50pm	Seats (Total: 40) ESJ 2208 CHE 2108	Discussion

CHBE451 **Photovoltaics: Solar Energy**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of ENGR-Chemical & Biomolecular Engineering department. Credit only granted for: ENCH468L or CHBE451. Formerly: ENCH468L.

The emphasis of the class is on developing a conceptual understanding of the device physics and manufacturing processes of crystalline and thin-film photovoltaic cells, and to develop elementary computational skills necessary to quantify solar cell efficiency. The class material includes detailed, system-level energy balances necessary to understand how solar energy fits into the complete energy generation, conversion, and storage picture. Quantitative comparisons of PV technology to solar chemical conversion processes and biofuels are made.

0101	Raymond Adomaitis TuTh 2:00pm - 3:15pm	Seats (Total: 15) JMP 2216	

CHBE456 **Combustion and Reacting Flow**

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Permission of ENGR-Chemical & Biomolecular Engineering department.

This course covers thermochemistry and chemical kinetics of reacting flows in depth. In particular, we focus on the combustion of hydrocarbon fuels in both a phenomenological and mechanistic approach. The course covers the specifics of premixed and nonpremixed flame systems, as well as ignition and extinction. Combustion modeling with equilibrium and chemical kinetic methods will be addressed. Environmental impact and emissions minimization will be covered in detail. Finally, the course will cover available combustion diagnostic methods and their application in laboratory and real-world systems.

0101	Michael Zachariah TuTh 9:30am - 10:45am	Seats (Total: 3) SPH 0308	

CHBE468 **Research**

(Perm req)

Credits: 1-3 Grading Method: Regular

Investigation of a research project under the direction of a faculty member. Comprehensive reports are required.

Contact department for information to register for this course.

CHBE469 **Special Projects**

(Perm req)

Credits: 1-3 Grading Method: Regular

Special project under the direction of a faculty member. Comprehensive reports are required.

Contact department for information to register for this course.

CHBE486 **Heterogeneous Catalysis for Energy Applications**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in CHBE302, CHBE424, and CHBE440; and permission of instructor. Restriction: Must be in a major within the ENGR-Chemical & Biomolecular Engineering department. Credit only granted for: CHBE486 or ENCH686.

Introduction to heterogeneous catalytic science and technology for energy conversion and hydocarbon processing. Preparation and mechanistic characterization of catalyst systems, kinetics of catalyzed reactions, adsorption and diffusion influences in heterogenious reactions. An overview of heterogeneous catalysis in various energy-related applications, including petroleum refining, chemicals from biomass, valorization of shale gas, and CO2 utilization will be introduced.

0101	Dongxia Liu	Seats (Total: 37)
	MW 5:00pm - 6:15pm	CHE 2110

CHBE497 **Protein Engineering**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: BIOE120, CHBE302, and CHBE440; and permission of instructor. Credit only granted for: CHBE497, BIOE489R, or ENCH 648P.

This course will cover the fundamentals of protein engineering and its applications in medicine, chemical processes, and energy. Topics will include the structure and function of biological molecules, rational design and directed evolution, construction of protein and peptide libraries, protein screening platforms, methods for characterizing structure and function of biological molecules. Scientific literature will be used to highlight key discoveries and current work in protein engineering.

0101	Amy Karlsson TuTh 12:30pm - 1:45pm	Seats (Total: 30) EGR 1104	

CHEM Chemistry Fall 2018

The College of Computer, Mathematical and Natural Sciences enforces course prerequisites. Students who do not meet the course prerequisites will be administratively dropped from the course. Registration in course sections which begin with "SEF" are restricted to students admitted into the Science in the Evening Program, administer ed through the Office of Extended Studies. For complete information, visit: OES website, email:oes@umd.edu, or call 301-405-7762.*

CHEM131 **Chemistry I - Fundamentals of General Chemistry**

Credits: 3 Grading Method: Regular General Education: DSNL (if taken with CHEM132)

Prerequisite: Must have math eligibility of MATH120 or higher. Corequisite: CHEM132. Recommended: For Science majors. Credit only granted for: CHEM103, CHEM131, CHEM135, CHEM153 or CHEM146. Formerly: CHEM103.

An overview of the Periodic Table, inorganic substances, ionic and covalent bonding, bulk properties of materials, chemical equilibrium, and quantitative chemistry. CHEM131 is the first course in a four-semester sequence for students majoring in the sciences, other than Chemistry and Biochemistry majors.

Students without the math pre-requisite will be administratively dropped.

1221	Pedro Bueno MWF 10:00am - 10:50am Tu 8:00am - 8:50am	Seats (Total: 40) CHM 1407 CHM 0115	Discussion
1222	Pedro Bueno MWF 10:00am - 10:50am Tu 9:30am - 10:20am	Seats (Total: 40) CHM 1407 CHM 0115	Discussion
1224	Pedro Bueno MWF 10:00am - 10:50am Tu 11:00am - 11:50am	Seats (Total: 40) CHM 1407 CHM 0115	Discussion
1241	Pedro Bueno MWF 10:00am - 10:50am Th 8:00am - 8:50am	Seats (Total: 40) CHM 1407 CHM 0115	Discussion

1242	Pedro Bueno MWF 10:00am - 10:50am Th 9:30am - 10:20am	Seats (Total: 20) CHM 1407 CHM 0115	Discussion
1243	Pedro Bueno MWF 10:00am - 10:50am Th 11:00am - 11:50am	Seats (Total: 40) CHM 1407 CHM 0115	Discussion
1325	Lenea Stocker MWF 11:00am - 11:50am Tu 12:30pm - 1:20pm	Seats (Total: 40) HJP 0226 CHM 0115	Discussion
1327	Lenea Stocker MWF 11:00am - 11:50am Tu 2:00pm - 2:50pm	Seats (Total: 20) HJP 0226 CHM 0115	Discussion
1328	Lenea Stocker MWF 11:00am - 11:50am Tu 3:30pm - 4:20pm	Seats (Total: 40) HJP 0226 CHM 0115	Discussion
1345	Lenea Stocker MWF 11:00am - 11:50am Th 12:30pm - 1:20pm	Seats (Total: 40) HJP 0226 CHM 0115	Discussion
1347	Lenea Stocker MWF 11:00am - 11:50am Th 2:00pm - 2:50pm	Seats (Total: 40) HJP 0226 CHM 0115	Discussion
1348	Lenea Stocker MWF 11:00am - 11:50am Th 3:30pm - 4:20pm	Seats (Total: 40) HJP 0226 CHM 0115	Discussion
1425	Amanda Schech MWF 8:00am - 8:50am Tu 12:30pm - 1:20pm	Seats (Total: 40) CHM 1407 CHM 2201	Discussion
1426	Amanda Schech MWF 8:00am - 8:50am Tu 2:00pm - 2:50pm	Seats (Total: 40) CHM 1407 CHM 2201	Discussion

1427	Amanda Schech MWF 8:00am - 8:50am Tu 3:30pm - 4:20pm	Seats (Total: 40) CHM 1407 CHM 2201	 Discussion
1445	Amanda Schech MWF 8:00am - 8:50am Th 12:30pm - 1:20pm	Seats (Total: 40) CHM 1407 CHM 2201	 Discussion
1446	Amanda Schech MWF 8:00am - 8:50am Th 2:00pm - 2:50pm	Seats (Total: 20) CHM 1407 CHM 2201	 Discussion
1447	Amanda Schech MWF 8:00am - 8:50am Th 3:30pm - 4:20pm	Seats (Total: 40) CHM 1407 CHM 2201	 Discussion
1521	Lee Friedman MWF 1:00pm - 1:50pm Tu 8:00am - 8:50am	Seats (Total: 40) CHM 1407 CHM 2201	 Discussion
1522	Lee Friedman MWF 1:00pm - 1:50pm Tu 9:30am - 10:20am	Seats (Total: 40) CHM 1407 CHM 2201	 Discussion
1523	Lee Friedman MWF 1:00pm - 1:50pm Tu 11:00am - 11:50am	Seats (Total: 20) CHM 1407 CHM 2201	 Discussion
1541	Lee Friedman MWF 1:00pm - 1:50pm Th 8:00am - 8:50am	Seats (Total: 40) CHM 1407 CHM 2201	 Discussion
1542	Lee Friedman MWF 1:00pm - 1:50pm Th 9:30am - 10:20am	Seats (Total: 40) CHM 1407 CHM 2201	 Discussion
1543	Lee Friedman MWF 1:00pm - 1:50pm Th 11:00am - 11:50am	Seats (Total: 40) CHM 1407 CHM 2201	 Discussion

FC01	Pedro Bueno TuTh 4:30pm - 5:45pm F 11:00am - 11:50am	Seats (Total: 52) CHM 1407 CHM 2201	Discussion
	Restricted to students in Freshmen Connection.		
FC02	Pedro Bueno TuTh 4:30pm - 5:45pm F 12:00pm - 12:50pm	Seats (Total: 52) CHM 1407 CHM 2201	Discussion
	Restricted to students in Freshmen Connection.		
FC03	Pedro Bueno TuTh 4:30pm - 5:45pm F 3:00pm - 3:50pm	Seats (Total: 52) CHM 1407 CHM 2201	Discussion
	Restricted to students in Freshmen Connection.		
SEF1	Natalia White M 6:30pm - 9:30pm W 6:30pm - 7:20pm	Seats (Total: 28) CHM 0119 CHM 2201	Discussion
	Restricted to students in the SIE Program. Click here for more information.		

CHEM131S **Chemistry I - Fundamentals of General Chemistry**

Credits: 3 Grading Method: Regular General Education: DSNL (if taken with CHEM132)

Prerequisite: Must have math eligibility of MATH120 or higher. Corequisite: CHEM132. Recommended: For Science majors. Credit only granted for: CHEM103, CHEM131, CHEM135, CHEM153 or CHEM146. Formerly: CHEM103.

An overview of the Periodic Table, inorganic substances, ionic and covalent bonding, bulk properties of materials, chemical equilibrium, and quantitative chemistry. CHEM131 is the first course in a four-semester sequence for students majoring in the sciences, other than Chemistry and Biochemistry majors.

Restricted to College Park Scholars - Life Sciences. Students without the math pre-requisite will be administratively dropped.

1242	Pedro Bueno MWF 10:00am - 10:50am Th 9:30am - 10:20am	Seats (Total: 20) CHM 1407 CHM 0115	Discussion

1327	Lenea Stocker MWF 11:00am - 11:50am Tu 2:00pm - 2:50pm	Seats (Total: 20) HJP 0226 CHM 0115	Discussion
1446	Amanda Schech MWF 8:00am - 8:50am Th 2:00pm - 2:50pm	Seats (Total: 20) CHM 1407 CHM 2201	Discussion
1523	Lee Friedman MWF 1:00pm - 1:50pm Tu 11:00am - 11:50am	Seats (Total: 20) CHM 1407 CHM 2201	Discussion

CHEM132 **General Chemistry I Laboratory**

Credits: 1 Grading Method: Regular

Corequisite: CHEM131. Credit only granted for: CHEM103, CHEM132, CHEM136, CHEM143, CHEM147 or CHEM177. Formerly: CHEM103.

Introduction to the quantification of chemical substances, including the concept of the mole and chemical stoichiometry. Additional work involves the synthesis of ionic substances and their qualitative characterization. Must be taken concurrently with CHEM131.

Laboratory sessions will begin after the first lecture. Students must pay a $40.00 laboratory materials fee.

1111	Christiana Guest M 9:00am - 11:50am	Seats (Total: 24) ESJ 1312	Lab
1122	Christiana Guest M 12:00pm - 2:50pm	Seats (Total: 24) ESJ 1316	Lab
1131	Christiana Guest M 3:00pm - 5:50pm	Seats (Total: 24) ESJ 1312	Lab
1132	Christiana Guest M 3:00pm - 5:50pm	Seats (Total: 24) ESJ 1316	Lab
1211	Christiana Guest Tu 9:30am - 12:20pm	Seats (Total: 24) ESJ 1312	Lab
1221	Christiana Guest Tu 12:30pm - 3:20pm	Seats (Total: 24) ESJ 1312	Lab

1222	Christiana Guest Tu 12:30pm - 3:20pm	Seats (Total: 24) ESJ 1316	Lab
1223	Christiana Guest Tu 12:30pm - 3:20pm	Seats (Total: 24) ESJ 1324	Lab
1232	Christiana Guest Tu 3:30pm - 6:20pm	Seats (Total: 24) ESJ 1316	Lab
1311	Christiana Guest W 9:00am - 11:50am	Seats (Total: 24) ESJ 1312	Lab
1321	Christiana Guest W 12:00pm - 2:50pm	Seats (Total: 24) ESJ 1312	Lab
1331	Christiana Guest W 3:00pm - 5:50pm	Seats (Total: 24) ESJ 1312	Lab
1332	Christiana Guest W 3:00pm - 5:50pm	Seats (Total: 24) ESJ 1316	Lab
1333	Christiana Guest W 3:00pm - 5:50pm	Seats (Total: 24) ESJ 1324	Lab
1334	Christiana Guest W 3:00pm - 5:50pm	Seats (Total: 24) ESJ 1330	Lab
1411	Christiana Guest Th 9:30am - 12:20pm	Seats (Total: 24) ESJ 1312	Lab
1412	Christiana Guest Th 9:30am - 12:20pm	Seats (Total: 24) ESJ 1316	Lab
1422	Christiana Guest Th 12:30pm - 3:20pm	Seats (Total: 24) ESJ 1316	Lab
1424	Christiana Guest Th 12:30pm - 3:20pm	Seats (Total: 24) ESJ 1330	Lab
1432	Christiana Guest Th 3:30pm - 6:20pm	Seats (Total: 24) ESJ 1316	Lab

1434	Christiana Guest Th 3:30pm - 6:20pm	Seats (Total: 24) ESJ 1330	Lab
1511	Christiana Guest F 9:00am - 11:50am	Seats (Total: 24) ESJ 1312	Lab
1531	Christiana Guest F 3:00pm - 5:50pm	Seats (Total: 24) ESJ 1312	Lab
FC11	Christiana Guest F 9:00am - 11:50am *Restricted to students in Freshmen Connection.*	Seats (Total: 24) ESJ 1316	Lab
FC12	Christiana Guest F 9:00am - 11:50am *Restricted to students in Freshmen Connection.*	Seats (Total: 24) ESJ 1324	Lab
FC13	Christiana Guest F 9:00am - 11:50am *Restricted to students in Freshmen Connection.*	Seats (Total: 24) ESJ 1330	Lab
FC21	Christiana Guest F 12:00pm - 2:50pm *Restricted to students in Freshmen Connection.*	Seats (Total: 24) ESJ 1316	Lab
FC22	Christiana Guest F 12:00pm - 2:50pm *Restricted to students in Freshmen Connection.*	Seats (Total: 24) ESJ 1324	Lab
FC23	Christiana Guest F 12:00pm - 2:50pm *Restricted to students in Freshmen Connection.*	Seats (Total: 24) ESJ 1330	Lab
FC33	Christiana Guest F 3:00pm - 5:50pm *Restricted to students in Freshmen Connection.*	Seats (Total: 24) ESJ 1330	Lab

SEF1	Christiana Guest W 7:30pm - 10:30pm	Seats (Total: 24) ESJ 1330	Lab
	Restricted to students in the SIE Program. Click here for more information.		

CHEM132C **General Chemistry I Laboratory**

Credits: 1 Grading Method: Regular, Pass-Fail

Corequisite: CHEM131. Credit only granted for: CHEM103, CHEM132, CHEM136, CHEM143, CHEM147 or CHEM177. Formerly: CHEM103.

Introduction to the quantification of chemical substances, including the concept of the mole and chemical stoichiometry. Additional work involves the synthesis of ionic substances and their qualitative characterization. Must be taken concurrently with CHEM131.

Restricted to new freshmen and new transfer students in Biological Science, Chemistry or Biochemistry. Students must pay a $40.00 laboratory materials fee.

1121	Christiana Guest M 12:00pm - 2:50pm	Seats (Total: 24) ESJ 1312	Lab
1123	Christiana Guest M 12:00pm - 2:50pm	Seats (Total: 24) ESJ 1324	Lab
1133	Christiana Guest M 3:00pm - 5:50pm	Seats (Total: 24) ESJ 1324	Lab
1213	Christiana Guest Tu 9:30am - 12:20pm	Seats (Total: 24) ESJ 1324	Lab
1231	Christiana Guest Tu 3:30pm - 6:20pm	Seats (Total: 24) ESJ 1312	Lab
1323	Christiana Guest W 12:00pm - 2:50pm	Seats (Total: 24) ESJ 1324	Lab
1421	Christiana Guest Th 12:30pm - 3:20pm	Seats (Total: 24) ESJ 1312	Lab
1423	Christiana Guest Th 12:30pm - 3:20pm	Seats (Total: 24) ESJ 1324	Lab

1433	Christiana Guest Th 3:30pm - 6:20pm *Restricted to BioFire students.*	Seats (Total: 24) ESJ 1324	Lab
1521	Christiana Guest F 12:00pm - 2:50pm *Restricted to BioFire students.*	Seats (Total: 24) ESJ 1312	Lab

CHEM132S **General Chemistry I Laboratory**

Credits: 1 Grading Method: Regular

Corequisite: CHEM131. Credit only granted for: CHEM103, CHEM132, CHEM136, CHEM143, CHEM147 or CHEM177. Formerly: CHEM103.

Introduction to the quantification of chemical substances, including the concept of the mole and chemical stoichiometry. Additional work involves the synthesis of ionic substances and their qualitative characterization. Must be taken concurrently with CHEM131.

Restricted to College Park - Life Sciences. Laboratory sessions will begin after the first lecture. Students must pay a $40.00 laboratory materials fee.

1212	Christiana Guest Tu 9:30am - 12:20pm	Seats (Total: 24) ESJ 1316	Lab
1233	Christiana Guest Tu 3:30pm - 6:20pm	Seats (Total: 24) ESJ 1324	Lab
1322	Christiana Guest W 12:00pm - 2:50pm	Seats (Total: 24) ESJ 1316	Lab
1431	Christiana Guest Th 3:30pm - 6:20pm	Seats (Total: 24) ESJ 1312	Lab

CHEM134 **Chemical Principles for Engineering**

Credits: 1 Grading Method: Regular

Prerequisite: Minimum grade of C- in CHEM131; or minimum grade of C- in CHEM146. Credit only granted for: CHEM 134 or CHEM 135.

Basic chemistry for engineering students. Introduction to organic structures and polymers, gas laws, liquids, solids, phase changes, chemical kinetics and electrochemistry.

0101	Earle Stone Th 8:00am - 8:50am	Seats (Total: 160) ESJ 2208	

CHEM135 **General Chemistry for Engineers**

Credits: 3 Grading Method: Regular

Prerequisite: Must have math eligibility of MATH120 or higher. Credit only granted for: CHEM103, CHEM113, CHEM131, CHEM135, or CHEM146.

The nature and composition of matter, solutions, chemical reactions, equilibria, and electrochemistry, with applications to various fields of engineering.

3125	Elizabeth Griffith TuTh 11:00am - 12:15pm M 12:00pm - 12:50pm	Seats (Total: 34) CHM 1407 CHM 2201	Discussion
3126	Elizabeth Griffith TuTh 11:00am - 12:15pm M 1:00pm - 1:50pm	Seats (Total: 34) CHM 1407 CHM 2201	Discussion
3127	Elizabeth Griffith TuTh 11:00am - 12:15pm M 2:00pm - 2:50pm	Seats (Total: 34) CHM 1407 CHM 2201	Discussion
3145	Elizabeth Griffith TuTh 11:00am - 12:15pm W 12:00pm - 12:50pm	Seats (Total: 34) CHM 1407 CHM 2201	Discussion
3147	Elizabeth Griffith TuTh 11:00am - 12:15pm W 1:00pm - 1:50pm	Seats (Total: 34) CHM 1407 CHM 2201	Discussion
3148	Elizabeth Griffith TuTh 11:00am - 12:15pm W 2:00pm - 2:50pm	Seats (Total: 34) CHM 1407 CHM 2201	Discussion
3225	Cheng Lee MWF 2:00pm - 2:50pm Tu 12:30pm - 1:20pm	Seats (Total: 34) BRB 1101 CHM 0119	Discussion

3226	Cheng Lee MWF 2:00pm - 2:50pm Tu 2:00pm - 2:50pm	Seats (Total: 34) BRB 1101 CHM 0119	Discussion
3227	Cheng Lee MWF 2:00pm - 2:50pm Tu 3:30pm - 4:20pm	Seats (Total: 34) BRB 1101 CHM 0119	Discussion
3245	Cheng Lee MWF 2:00pm - 2:50pm Th 12:30pm - 1:20pm	Seats (Total: 34) BRB 1101 CHM 0119	Discussion
3247	Cheng Lee MWF 2:00pm - 2:50pm Th 2:00pm - 2:50pm	Seats (Total: 34) BRB 1101 CHM 0119	Discussion
3248	Cheng Lee MWF 2:00pm - 2:50pm Th 3:30pm - 4:20pm	Seats (Total: 34) BRB 1101 CHM 0119	Discussion
3325	Alice Mignerey MWF 3:00pm - 3:50pm Tu 12:30pm - 1:20pm	Seats (Total: 34) BRB 1101 CHM 1228	Discussion
3326	Alice Mignerey MWF 3:00pm - 3:50pm Tu 2:00pm - 2:50pm	Seats (Total: 34) BRB 1101 CHM 1228	Discussion
3327	Alice Mignerey MWF 3:00pm - 3:50pm Tu 3:30pm - 4:20pm	Seats (Total: 34) BRB 1101 CHM 1228	Discussion
3345	Alice Mignerey MWF 3:00pm - 3:50pm Th 12:30pm - 1:20pm	Seats (Total: 34) BRB 1101 CHM 1228	Discussion
3347	Alice Mignerey MWF 3:00pm - 3:50pm Th 2:00pm - 2:50pm	Seats (Total: 34) BRB 1101 CHM 1228	Discussion

3348	Alice Mignerey MWF 3:00pm - 3:50pm Th 3:30pm - 4:20pm	Seats (Total: 34) BRB 1101 CHM 1228	Discussion
3425	John Ondov TuTh 12:30pm - 1:45pm M 12:00pm - 12:50pm	Seats (Total: 34) BRB 1101 CHM 1109	Discussion
3426	John Ondov TuTh 12:30pm - 1:45pm M 1:00pm - 1:50pm	Seats (Total: 34) BRB 1101 CHM 1109	Discussion
3427	John Ondov TuTh 12:30pm - 1:45pm M 2:00pm - 2:50pm	Seats (Total: 34) BRB 1101 CHM 1109	Discussion
3445	John Ondov TuTh 12:30pm - 1:45pm W 12:00pm - 12:50pm	Seats (Total: 34) BRB 1101 CHM 1109	Discussion
3446	John Ondov TuTh 12:30pm - 1:45pm W 1:00pm - 1:50pm	Seats (Total: 34) BRB 1101 CHM 1109	Discussion
3447	John Ondov TuTh 12:30pm - 1:45pm W 2:00pm - 2:50pm	Seats (Total: 34) BRB 1101 CHM 1109	Discussion
FC01	Elizabeth Griffith TuTh 4:30pm - 5:45pm F 11:00am - 11:50am *Restricted to students in Freshmen Connection.*	Seats (Total: 55) KEY 0106 CHM 0115	Discussion
FC02	Elizabeth Griffith TuTh 4:30pm - 5:45pm F 12:00pm - 12:50pm *Restricted to students in Freshmen Connection.*	Seats (Total: 55) KEY 0106 CHM 0115	Discussion

FC03	Elizabeth Griffith TuTh 4:30pm - 5:45pm F 1:00pm - 1:50pm *Restricted to students in Freshmen Connection.*	Seats (Total: 55) KEY 0106 CHM 0115	 Discussion

CHEM136 **General Chemistry Laboratory for Engineers**

Credits: 1 Grading Method: Regular

Prerequisite: Must have completed or be concurrently enrolled in CHEM135. Restriction: Must be in a major in ENGR-A. James Clark School of Engineering.

A laboratory course for engineering majors intending to take CHEM231 and CHEM232.

There is a $40.00 lab fee for this course.

1125	Natalia White M 12:00pm - 2:50pm	Seats (Total: 24) ESJ 1330	 Lab
1135	Natalia White M 3:00pm - 5:50pm	Seats (Total: 24) ESJ 1330	 Lab
1215	Natalia White Tu 9:30am - 12:20pm	Seats (Total: 24) ESJ 1330	 Lab
1225	Natalia White Tu 12:30pm - 3:20pm	Seats (Total: 24) ESJ 1330	 Lab

CHEM146 **Principles of General Chemistry**

Credits: 3 Grading Method: Regular

Prerequisite: Must have math eligibility of MATH140 or higher. Corequisite: CHEM177. Restriction: Must be in one of the following programs (Chemistry; Biochemistry). Credit only granted for: CHEM103, CHEM131, CHEM135, CHEM143, or CHEM146. Formerly: CHEM143.

An overview of the Periodic Table, inorganic substances, ionic and covalent bonding, bulk properties of materials, chemical equilibrium, and quantitative chemistry. CHEM146 is the first course in a four-semester sequence for Chemistry and Biochemistry majors.

0032	Bryan Eichhorn MWF 9:00am - 9:50am Tu 9:30am - 10:20am	Seats (Total: 40) PLS 1140 CHM 1224	 Discussion

0033	Bryan Eichhorn MWF 9:00am - 9:50am Th 9:30am - 10:20am	Seats (Total: 40) PLS 1140 CHM 1224	Discussion

CHEM177 **Introduction to Laboratory Practices and Research in the Chemical Sciences**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Corequisite: CHEM146, CHEM131, or CHEM135. Restriction: Must be in a major within CMNS-Chemistry & Biochemistry department; or permission of CMNS-Chemistry & Biochemistry department. Credit only granted for: CHEM132, CHEM136, CHEM147, or CHEM177.

First semester laboratory course required for CHEM and BCHM majors. Introduction to laboratory techniques, including safety practices, scientific ethics, and presentation of current research topics.

Students must pay a $40.00 laboratory materials fee.

1131	Elizabeth Griffith F 3:00pm - 3:50pm M 3:00pm - 5:50pm	Seats (Total: 18) CHM 1402 ESJ 0312	Lab
1211	Elizabeth Griffith F 3:00pm - 3:50pm Tu 9:30am - 12:20pm	Seats (Total: 18) CHM 1402 ESJ 0312	Lab
1231	Elizabeth Griffith F 3:00pm - 3:50pm Tu 3:30pm - 6:20pm	Seats (Total: 18) CHM 1402 ESJ 0312	Lab
1331	Elizabeth Griffith F 3:00pm - 3:50pm W 3:00pm - 5:50pm	Seats (Total: 18) CHM 1402 ESJ 0312	Lab
1411	Elizabeth Griffith F 3:00pm - 3:50pm Th 9:30am - 12:20pm	Seats (Total: 18) CHM 1402 ESJ 0312	Lab
1431	Elizabeth Griffith F 3:00pm - 3:50pm Th 3:30pm - 6:20pm	Seats (Total: 18) CHM 1402 ESJ 0312	Lab

1521	Elizabeth Griffith F 3:00pm - 3:50pm F 12:00pm - 2:50pm	Seats (Total: 18) CHM 1402 ESJ 0312	 Lab

CHEM231 **Organic Chemistry I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHEM131, CHEM135, or CHEM146; and (CHEM132, CHEM136, CHEM147, or CHEM177); and a grade of C- or better in the prerequisites is required of College of Computer, Mathematical, and Natural Sciences majors and recommended for all students. Corequisite: CHEM232. Credit only granted for: CHEM104, CHEM231, CHEM233 or CHEM237. Formerly: CHEM233.

The chemistry of carbon: aliphatic compounds, aromatic compounds, stereochemistry, arenes, halides, alcohols, esters and spectroscopy.

5125	Bonnie Dixon MWF 9:00am - 9:50am Tu 12:30pm - 1:20pm	Seats (Total: 34) CHM 1407 CHM 0122	 Discussion
5127	Bonnie Dixon MWF 9:00am - 9:50am Tu 2:00pm - 2:50pm	Seats (Total: 34) CHM 1407 CHM 0122	 Discussion
5128	Bonnie Dixon MWF 9:00am - 9:50am Tu 3:30pm - 4:20pm	Seats (Total: 34) CHM 1407 CHM 0122	 Discussion
5145	Bonnie Dixon MWF 9:00am - 9:50am Th 12:30pm - 1:20pm	Seats (Total: 34) CHM 1407 CHM 0122	 Discussion
5147	Bonnie Dixon MWF 9:00am - 9:50am Th 2:00pm - 2:50pm	Seats (Total: 34) CHM 1407 CHM 0122	 Discussion
5148	Bonnie Dixon MWF 9:00am - 9:50am Th 3:30pm - 4:20pm	Seats (Total: 34) CHM 1407 CHM 0122	 Discussion

5215	Monique Koppel MWF 12:00pm - 12:50pm Tu 12:30pm - 1:20pm	Seats (Total: 34) CHM 1407 CHM 0127	 Discussion
5216	Monique Koppel MWF 12:00pm - 12:50pm Tu 2:00pm - 2:50pm	Seats (Total: 34) CHM 1407 CHM 0127	 Discussion
5217	Monique Koppel MWF 12:00pm - 12:50pm Tu 3:30pm - 4:20pm	Seats (Total: 34) CHM 1407 CHM 0127	 Discussion
5235	Monique Koppel MWF 12:00pm - 12:50pm Th 12:30pm - 1:20pm	Seats (Total: 34) CHM 1407 CHM 0127	 Discussion
5236	Monique Koppel MWF 12:00pm - 12:50pm Th 2:00pm - 2:50pm	Seats (Total: 34) CHM 1407 CHM 0127	 Discussion
5237	Monique Koppel MWF 12:00pm - 12:50pm Th 3:30pm - 4:20pm	Seats (Total: 34) CHM 1407 CHM 0127	 Discussion
5315	Jeffery Davis TuTh 2:00pm - 3:15pm M 12:00pm - 12:50pm	Seats (Total: 34) CHM 1407 CHM 0122	 Discussion
5316	Jeffery Davis TuTh 2:00pm - 3:15pm M 1:00pm - 1:50pm	Seats (Total: 34) CHM 1407 CHM 0122	 Discussion
5317	Jeffery Davis TuTh 2:00pm - 3:15pm M 2:00pm - 2:50pm	Seats (Total: 34) CHM 1407 CHM 0122	 Discussion
5335	Jeffery Davis TuTh 2:00pm - 3:15pm W 12:00pm - 12:50pm	Seats (Total: 34) CHM 1407 CHM 0122	 Discussion

5336	Jeffery Davis TuTh 2:00pm - 3:15pm W 1:00pm - 1:50pm	Seats (Total: 34) CHM 1407 CHM 0122	Discussion
5337	Jeffery Davis TuTh 2:00pm - 3:15pm W 2:00pm - 2:50pm	Seats (Total: 34) CHM 1407 CHM 0122	Discussion
5421	Lenea Stocker MWF 2:00pm - 2:50pm Tu 8:00am - 8:50am	Seats (Total: 34) CHM 1407 CHM 0119	Discussion
5422	Lenea Stocker MWF 2:00pm - 2:50pm Tu 9:30am - 10:20am	Seats (Total: 34) CHM 1407 CHM 0119	Discussion
5423	Lenea Stocker MWF 2:00pm - 2:50pm Tu 11:00am - 11:50am	Seats (Total: 34) CHM 1407 CHM 0119	Discussion
5441	Lenea Stocker MWF 2:00pm - 2:50pm Th 8:00am - 8:50am	Seats (Total: 34) CHM 1407 CHM 0119	Discussion
5442	Lenea Stocker MWF 2:00pm - 2:50pm Th 9:30am - 10:20am	Seats (Total: 34) CHM 1407 CHM 0119	Discussion
5443	Lenea Stocker MWF 2:00pm - 2:50pm Th 12:30pm - 1:20pm	Seats (Total: 34) CHM 1407 CHM 1224	Discussion
SEF1	Monique Koppel M 6:30pm - 9:30pm W 6:30pm - 7:20pm	Seats (Total: 36) CHM 1402 CHM 1224	Discussion
	Restricted to students in the SIE Program. Click here for more information.		

CHEM232 **Organic Chemistry Laboratory I**

Credits: 1 Grading Method: Regular

Prerequisite: CHEM131 and CHEM132; or (CHEM135 and CHEM136); or (CHEM146 and CHEM147). And a grade of C- or better in the prerequisites is required for College of Computer, Mathematical, and Natural Sciences majors and recommended for all students. Corequisite: CHEM231. Credit only granted for: CHEM104, CHEM231, CHEM233 or CHEM237. Formerly: CHEM233.

Provides experience in developing some basic laboratory techniques, recrystallization, distillation, extraction, chromatography.

Laboratory sessions will begin after the first lecture of CHEM 231. Students must pay a $40.00 laboratory materials fee.

5121	Monique Koppel M 12:00pm - 2:50pm	Seats (Total: 18) CHM 1342	Lab
5122	Monique Koppel M 12:00pm - 2:50pm	Seats (Total: 18) CHM 1346	Lab
5123	Monique Koppel M 12:00pm - 2:50pm	Seats (Total: 18) CHM 1356	Lab
5131	Monique Koppel M 3:00pm - 5:50pm	Seats (Total: 18) CHM 1342	Lab
5132	Monique Koppel M 3:00pm - 5:50pm	Seats (Total: 18) CHM 1346	Lab
5133	Monique Koppel M 3:00pm - 5:50pm	Seats (Total: 18) CHM 1356	Lab
5134	Monique Koppel M 3:00pm - 5:50pm	Seats (Total: 18) CHM 1360	Lab
5141	Monique Koppel M 6:00pm - 8:50pm	Seats (Total: 18) CHM 1342	Lab
5142	Monique Koppel M 6:00pm - 8:50pm	Seats (Total: 18) CHM 1346	Lab
5143	Monique Koppel M 6:00pm - 8:50pm	Seats (Total: 18) CHM 1356	Lab
5144	Monique Koppel M 6:00pm - 8:50pm	Seats (Total: 18) CHM 1360	Lab

5221	Monique Koppel Tu 12:30pm - 3:20pm	Seats (Total: 18) CHM 1342	Lab
5222	Monique Koppel Tu 12:30pm - 3:20pm	Seats (Total: 18) CHM 1346	Lab
5223	Monique Koppel Tu 12:30pm - 3:20pm	Seats (Total: 18) CHM 1356	Lab
5224	Monique Koppel Tu 12:30pm - 3:20pm	Seats (Total: 18) CHM 1360	Lab
5231	Monique Koppel Tu 3:30pm - 6:20pm	Seats (Total: 18) CHM 1342	Lab
5232	Monique Koppel Tu 3:30pm - 6:20pm	Seats (Total: 18) CHM 1346	Lab
5233	Monique Koppel Tu 3:30pm - 6:20pm	Seats (Total: 18) CHM 1356	Lab
5234	Monique Koppel Tu 3:30pm - 6:20pm	Seats (Total: 18) CHM 1360	Lab
5241	Monique Koppel Tu 6:30pm - 9:20pm	Seats (Total: 18) CHM 1342	Lab
5242	Monique Koppel Tu 6:30pm - 9:20pm	Seats (Total: 18) CHM 1346	Lab
5243	Monique Koppel Tu 6:30pm - 9:20pm	Seats (Total: 18) CHM 1356	Lab
5321	Monique Koppel W 12:00pm - 2:50pm	Seats (Total: 18) CHM 1342	Lab
5322	Monique Koppel W 12:00pm - 2:50pm	Seats (Total: 18) CHM 1346	Lab
5323	Monique Koppel W 12:00pm - 2:50pm	Seats (Total: 18) CHM 1356	Lab

5331	Monique Koppel W 3:00pm - 5:50pm	Seats (Total: 18) CHM 1342	Lab
5333	Monique Koppel W 3:00pm - 5:50pm	Seats (Total: 18) CHM 1356	Lab
5334	Monique Koppel W 3:00pm - 5:50pm	Seats (Total: 14) CHM 1360	Lab
5341	Monique Koppel W 6:00pm - 8:50pm	Seats (Total: 18) CHM 1342	Lab
5343	Monique Koppel W 6:00pm - 8:50pm	Seats (Total: 18) CHM 1356	Lab
5344	Monique Koppel W 6:00pm - 8:50pm	Seats (Total: 18) CHM 1360	Lab
5421	Monique Koppel Th 12:30pm - 3:20pm	Seats (Total: 18) CHM 1342	Lab
5422	Monique Koppel Th 12:30pm - 3:20pm	Seats (Total: 18) CHM 1346	Lab
5423	Monique Koppel Th 12:30pm - 3:20pm	Seats (Total: 18) CHM 1356	Lab
5424	Monique Koppel Th 12:30pm - 3:20pm	Seats (Total: 18) CHM 1360	Lab
5431	Monique Koppel Th 3:30pm - 6:20pm	Seats (Total: 18) CHM 1342	Lab
5432	Monique Koppel Th 3:30pm - 6:20pm	Seats (Total: 18) CHM 1346	Lab
5433	Monique Koppel Th 3:30pm - 6:20pm	Seats (Total: 18) CHM 1356	Lab
5434	Monique Koppel Th 3:30pm - 6:20pm	Seats (Total: 18) CHM 1360	Lab

SEF1	Monique Koppel W 7:30pm - 10:30pm	Seats (Total: 18) CHM 1346	Lab
	Restricted to students in the SIE Program. Click here for more information.		

CHEM241 **Organic Chemistry II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHEM231 and CHEM232; or CHEM237. And a grade of C- or better in the prerequisites is required for College of Computer, Mathematical, and Natural Sciences majors and recommended for all students. Credit only granted for: CHEM241, CHEM243 or CHEM247. Formerly: CHEM243.

A continuation of CHEM231 with emphasis on molecular structure; substitution reactions; carbonium ions; aromaticity; synthetic processes; macromolecules.

6115	Philip DeShong TuTh 8:00am - 9:15am M 12:00pm - 12:50pm	Seats (Total: 30) CHM 1407 CHM 0119	Discussion
6116	Philip DeShong TuTh 8:00am - 9:15am M 1:00pm - 1:50pm	Seats (Total: 30) CHM 1407 CHM 0119	Discussion
6117	Philip DeShong TuTh 8:00am - 9:15am M 2:00pm - 2:50pm	Seats (Total: 30) CHM 1407 CHM 0119	Discussion
6135	Philip DeShong TuTh 8:00am - 9:15am W 12:00pm - 12:50pm	Seats (Total: 30) CHM 1407 CHM 0119	Discussion
6136	Philip DeShong TuTh 8:00am - 9:15am W 1:00pm - 1:50pm	Seats (Total: 30) CHM 1407 CHM 0119	Discussion
6137	Philip DeShong TuTh 8:00am - 9:15am W 2:00pm - 2:50pm	Seats (Total: 30) CHM 1407 CHM 0119	Discussion
6212	Lai-Xi Wang TuTh 9:30am - 10:45am M 9:00am - 9:50am	Seats (Total: 30) CHM 1407 CHM 1228	Discussion

6213	Lai-Xi Wang TuTh 9:30am - 10:45am M 10:00am - 10:50am	Seats (Total: 30) CHM 1407 CHM 1228	Discussion
6214	Lai-Xi Wang TuTh 9:30am - 10:45am M 11:00am - 11:50am	Seats (Total: 30) CHM 1407 CHM 1228	Discussion
6232	Lai-Xi Wang TuTh 9:30am - 10:45am W 9:00am - 9:50am	Seats (Total: 30) CHM 1407 CHM 1228	Discussion
6233	Lai-Xi Wang TuTh 9:30am - 10:45am W 10:00am - 10:50am	Seats (Total: 30) CHM 1407 CHM 1228	Discussion
6234	Lai-Xi Wang TuTh 9:30am - 10:45am W 11:00am - 11:50am	Seats (Total: 30) CHM 1407 CHM 1228	Discussion
6324	Michael Montague-Smith MWF 9:00am - 9:50am Tu 12:30pm - 1:20pm	Seats (Total: 30) PHY 1412 CHM 1109	Discussion
6325	Michael Montague-Smith MWF 9:00am - 9:50am Tu 2:00pm - 2:50pm	Seats (Total: 30) PHY 1412 CHM 1109	Discussion
6326	Michael Montague-Smith MWF 9:00am - 9:50am Tu 3:30pm - 4:20pm	Seats (Total: 30) PHY 1412 CHM 1109	Discussion
6344	Michael Montague-Smith MWF 9:00am - 9:50am Th 12:30pm - 1:20pm	Seats (Total: 30) PHY 1412 CHM 1109	Discussion
6345	Michael Montague-Smith MWF 9:00am - 9:50am Th 2:00pm - 2:50pm	Seats (Total: 30) PHY 1412 CHM 1109	Discussion

6346	Michael Montague-Smith MWF 9:00am - 9:50am Th 3:30pm - 4:20pm	Seats (Total: 30) PHY 1412 CHM 1109	Discussion
6415	Daniel Falvey TuTh 12:30pm - 1:45pm M 12:00pm - 12:50pm	Seats (Total: 30) CHM 1407 CHM 1228	Discussion
6416	Daniel Falvey TuTh 12:30pm - 1:45pm M 1:00pm - 1:50pm	Seats (Total: 30) CHM 1407 CHM 1228	Discussion
6417	Daniel Falvey TuTh 12:30pm - 1:45pm M 2:00pm - 2:50pm	Seats (Total: 30) CHM 1407 CHM 1228	Discussion
6435	Daniel Falvey TuTh 12:30pm - 1:45pm W 12:00pm - 12:50pm	Seats (Total: 30) CHM 1407 CHM 1228	Discussion
6436	Daniel Falvey TuTh 12:30pm - 1:45pm W 1:00pm - 1:50pm	Seats (Total: 30) CHM 1407 CHM 1228	Discussion
6437	Daniel Falvey TuTh 12:30pm - 1:45pm W 2:00pm - 2:50pm	Seats (Total: 30) CHM 1407 CHM 1228	Discussion
SEF1	Howard Fribush M 6:30pm - 9:30pm W 6:30pm - 7:20pm	Seats (Total: 24) PLS 1140 CHM 0127	Discussion
	Restricted to students in the SIE Program. Click here for more information.		

CHEM242 **Organic Chemistry Laboratory II**

Credits: 1 Grading Method: Regular

Prerequisite: CHEM231 and CHEM232; or CHEM237. And a grade of C- or better in the prerequisites is required for College of Computer, Mathematical, and Natural Sciences majors and recommended for all students. Corequisite: CHEM241. Credit only granted for: CHEM243 or CHEM247. Formerly: CHEM243.

Synthetic organic chemistry through functional group manipulation, introduction to instrumentation essential to analysis and structure elucidation.

Students must pay a $40.00 laboratory materials fee.

6121	Lee Friedman M 12:00pm - 2:50pm	Seats (Total: 18) CHM 1302	Lab
6122	Lee Friedman M 12:00pm - 2:50pm	Seats (Total: 18) CHM 1308	Lab
6123	Lee Friedman M 12:00pm - 2:50pm	Seats (Total: 18) CHM 1326	Lab
6131	Lee Friedman M 3:00pm - 5:50pm	Seats (Total: 18) CHM 1302	Lab
6132	Lee Friedman M 3:00pm - 5:50pm	Seats (Total: 18) CHM 1308	Lab
6141	Lee Friedman M 6:00pm - 8:50pm	Seats (Total: 18) CHM 1302	Lab
6142	Lee Friedman M 6:00pm - 8:50pm	Seats (Total: 18) CHM 1308	Lab
6144	Lee Friedman M 6:00pm - 8:50pm	Seats (Total: 18) CHM 1330	Lab
6221	Lee Friedman Tu 12:30pm - 3:20pm	Seats (Total: 18) CHM 1302	Lab
6222	Lee Friedman Tu 12:30pm - 3:20pm	Seats (Total: 18) CHM 1308	Lab
6224	Lee Friedman Tu 12:30pm - 3:20pm	Seats (Total: 18) CHM 1330	Lab
6231	Lee Friedman Tu 3:30pm - 6:20pm	Seats (Total: 18) CHM 1302	Lab

6232	Lee Friedman Tu 3:30pm - 6:20pm	Seats (Total: 18) CHM 1308	Lab
6234	Lee Friedman Tu 3:30pm - 6:20pm	Seats (Total: 18) CHM 1330	Lab
6241	Lee Friedman Tu 6:30pm - 9:20pm	Seats (Total: 18) CHM 1302	Lab
6243	Lee Friedman Tu 6:30pm - 9:20pm	Seats (Total: 18) CHM 1326	Lab
6244	Lee Friedman Tu 6:30pm - 9:20pm	Seats (Total: 18) CHM 1330	Lab
6321	Lee Friedman W 12:00pm - 2:50pm	Seats (Total: 18) CHM 1302	Lab
6322	Lee Friedman W 12:00pm - 2:50pm	Seats (Total: 18) CHM 1308	Lab
6323	Lee Friedman W 12:00pm - 2:50pm	Seats (Total: 18) CHM 1326	Lab
6324	Lee Friedman W 12:00pm - 2:50pm	Seats (Total: 18) CHM 1330	Lab
6331	Lee Friedman W 3:00pm - 5:50pm	Seats (Total: 18) CHM 1302	Lab
6332	Lee Friedman W 3:00pm - 5:50pm	Seats (Total: 14) CHM 1308	Lab
6333	Lee Friedman W 3:00pm - 5:50pm	Seats (Total: 18) CHM 1326	Lab
6334	Lee Friedman W 3:00pm - 5:50pm	Seats (Total: 18) CHM 1330	Lab
6343	Lee Friedman W 6:00pm - 8:50pm	Seats (Total: 18) CHM 1326	Lab

6344	Lee Friedman W 6:00pm - 8:50pm	Seats (Total: 18) CHM 1330	Lab
6421	Lee Friedman Th 12:30pm - 3:20pm	Seats (Total: 18) CHM 1302	Lab
6422	Lee Friedman Th 12:30pm - 3:20pm	Seats (Total: 18) CHM 1308	Lab
6423	Lee Friedman Th 12:30pm - 3:20pm	Seats (Total: 18) CHM 1326	Lab
6424	Lee Friedman Th 12:30pm - 3:20pm	Seats (Total: 18) CHM 1330	Lab
6431	Lee Friedman Th 3:30pm - 6:20pm	Seats (Total: 18) CHM 1302	Lab
6432	Lee Friedman Th 3:30pm - 6:20pm	Seats (Total: 18) CHM 1308	Lab
6433	Lee Friedman Th 3:30pm - 6:20pm	Seats (Total: 18) CHM 1326	Lab
6434	Lee Friedman Th 3:30pm - 6:20pm	Seats (Total: 18) CHM 1330	Lab
SEF1	Lee Friedman W 7:30pm - 10:30pm	Seats (Total: 18) CHM 1308	Lab
	Restricted to students in the SIE Program. Click here for more information.		

CHEM247 **Principles of Organic Chemistry II**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in CHEM237; or permission of CMNS-Chemistry & Biochemistry department. Restriction: Must be in one of the following programs (Chemistry; Biochemistry) ; or must be an honors student. Credit only granted for: CHEM243 or CHEM247.

A continuation of CHEM237 with emphasis on molecular structure, substitution reactions; carbonium ions; aromaticity; synthetic processes; macromolecules.

Students must pay a $40.00 laboratory materials fee.

6113	Myles Poulin	Seats (Total: 18)	
	MWF 10:00am - 10:50am	CHM 0115	
	M 3:00pm - 5:50pm	CHM 1326	Lab
	Tu 12:30pm - 1:20pm	CHM 0124	Discussion
6224	Myles Poulin	Seats (Total: 18)	
	MWF 10:00am - 10:50am	CHM 0115	
	Tu 3:30pm - 6:20pm	CHM 1326	Lab
	Tu 2:00pm - 2:50pm	CHM 0124	Discussion
6323	Myles Poulin	Seats (Total: 18)	
	MWF 10:00am - 10:50am	CHM 0115	
	Tu 12:30pm - 3:20pm	CHM 1326	Lab
	Tu 3:30pm - 4:20pm	CHM 0124	Discussion

CHEM271 **General Chemistry and Energetics**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHEM241 and CHEM242; or CHEM247. And a grade of C- or better in the prerequisites for College of Computer, Mathematical, and Natural Sciences majors and recommended for all students. Corequisite: CHEM272. Credit only granted for: CHEM113, CHEM153, CHEM271 or CHEM276. Formerly: CHEM113.

An introduction to the physical aspects of chemistry; chemical kinetics thermodynamics and electrochemistry in the context of current chemistry research.

2222	John Ondov	Seats (Total: 32)	
	MW 11:00am - 11:50am	CHM 1407	
	Tu 8:00am - 8:50am	CHM 0128	Discussion
2225	John Ondov	Seats (Total: 32)	
	MW 11:00am - 11:50am	CHM 1407	
	Tu 9:30am - 10:20am	CHM 0128	Discussion
2227	John Ondov	Seats (Total: 32)	
	MW 11:00am - 11:50am	CHM 1407	
	Tu 11:00am - 11:50am	CHM 0128	Discussion

2242	John Ondov MW 11:00am - 11:50am Th 8:00am - 8:50am	Seats (Total: 32) CHM 1407 CHM 0128	Discussion
2245	John Ondov MW 11:00am - 11:50am Th 9:30am - 10:20am	Seats (Total: 32) CHM 1407 CHM 0128	Discussion
2247	John Ondov MW 11:00am - 11:50am Th 12:30pm - 1:20pm	Seats (Total: 27) CHM 1407 CHM 0124	Discussion
2326	Jason Kahn MW 3:00pm - 3:50pm Tu 12:30pm - 1:20pm	Seats (Total: 31) CHM 1407 CHM 0128	Discussion
2327	Jason Kahn MW 3:00pm - 3:50pm Tu 2:00pm - 2:50pm	Seats (Total: 31) CHM 1407 CHM 0128	Discussion
2328	Jason Kahn MW 3:00pm - 3:50pm Tu 3:30pm - 4:20pm	Seats (Total: 31) CHM 1407 CHM 0128	Discussion
2346	Jason Kahn MW 3:00pm - 3:50pm Th 12:30pm - 1:20pm	Seats (Total: 31) CHM 1407 CHM 0128	Discussion
2347	Jason Kahn MW 3:00pm - 3:50pm Th 2:00pm - 2:50pm	Seats (Total: 31) CHM 1407 CHM 0128	Discussion
2348	Jason Kahn MW 3:00pm - 3:50pm Th 3:30pm - 4:20pm	Seats (Total: 31) CHM 1407 CHM 0128	Discussion
SEF1	Daniel Gowetski M 6:00pm - 7:50pm W 6:30pm - 7:20pm	Seats (Total: 20) CHM 1228 CHM 1228	Discussion
	Restricted to students in the SIE Program. Click here for more information.		

CHEM272 **General Bioanalytical Chemistry Laboratory**

Credits: 2 Grading Method: Regular, Pass-Fail

Prerequisite: CHEM241 and CHEM242; or CHEM247. And a grade of C- or better in the prerequisites is required for College of Computer, Mathematical, and Natural Sciences majors and recommended for all students. Corequisite: CHEM271. Credit only granted for: CHEM227, CHEM272 or CHEM277.

An introduction to analytical chemistry with an emphasis on bio-analytical instrumentation and techniques.

Students must pay a $40.00 laboratory materials fee.

8122	Amanda Schech F 11:00am - 11:50am M 12:00pm - 2:50pm	Seats (Total: 24) CHM 1407 ESJ 2316	Lab
8132	Amanda Schech F 11:00am - 11:50am M 3:00pm - 5:50pm	Seats (Total: 24) CHM 1407 ESJ 2316	Lab
8211	Amanda Schech F 11:00am - 11:50am Tu 9:30am - 12:20pm	Seats (Total: 24) CHM 1407 ESJ 2312	Lab
8222	Amanda Schech F 11:00am - 11:50am Tu 12:30pm - 3:20pm	Seats (Total: 24) CHM 1407 ESJ 2316	Lab
8231	Amanda Schech F 11:00am - 11:50am Tu 3:30pm - 6:20pm	Seats (Total: 24) CHM 1407 ESJ 2312	Lab
8321	Amanda Schech F 11:00am - 11:50am W 12:00pm - 2:50pm	Seats (Total: 24) CHM 1407 ESJ 2312	Lab
8331	Amanda Schech F 11:00am - 11:50am W 3:00pm - 5:50pm	Seats (Total: 24) CHM 1407 ESJ 2312	Lab
8431	Amanda Schech F 11:00am - 11:50am Th 3:30pm - 6:20pm	Seats (Total: 24) CHM 1407 ESJ 2312	Lab

8532	Amanda Schech F 11:00am - 11:50am F 3:00pm - 5:50pm	Seats (Total: 24) CHM 1407 ESJ 2316	Lab
9121	Amanda Schech F 3:00pm - 3:50pm M 12:00pm - 2:50pm	Seats (Total: 24) CHM 1407 ESJ 2312	Lab
9131	Amanda Schech F 3:00pm - 3:50pm M 3:00pm - 5:50pm	Seats (Total: 24) CHM 1407 ESJ 2312	Lab
9221	Amanda Schech F 3:00pm - 3:50pm Tu 12:30pm - 3:20pm	Seats (Total: 24) CHM 1407 ESJ 2312	Lab
9232	Amanda Schech F 3:00pm - 3:50pm Tu 3:30pm - 6:20pm	Seats (Total: 24) CHM 1407 ESJ 2316	Lab
9322	Amanda Schech F 3:00pm - 3:50pm W 12:00pm - 2:50pm	Seats (Total: 24) CHM 1407 ESJ 2316	Lab
9332	Amanda Schech F 3:00pm - 3:50pm W 3:00pm - 5:50pm	Seats (Total: 24) CHM 1407 ESJ 2316	Lab
9422	Amanda Schech F 3:00pm - 3:50pm Th 12:30pm - 3:20pm	Seats (Total: 24) CHM 1407 ESJ 2316	Lab
9432	Amanda Schech F 3:00pm - 3:50pm Th 3:30pm - 6:20pm	Seats (Total: 24) CHM 1407 ESJ 2316	Lab
9521	Amanda Schech F 3:00pm - 3:50pm F 12:00pm - 2:50pm	Seats (Total: 24) CHM 1407 ESJ 2312	Lab

9522	Amanda Schech F 3:00pm - 3:50pm F 12:00pm - 2:50pm	Seats (Total: 24) CHM 1407 ESJ 2316	 Lab
SEF1	Jason Kahn M 8:00pm - 8:50pm W 7:30pm - 10:30pm	Seats (Total: 24) CHM 1228 ESJ 2312	 Lab
	Restricted to students in the SIE Program. Click here for more information.		

CHEM277 **Fundamentals of Analytical and Bioanalytical Chemistry Laboratory**

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CHEM241 and CHEM242; or minimum grade of C- in CHEM247. Corequisite: CHEM276. Restriction: Must be in one of the following programs (Chemistry; Biochemistry). Credit only granted for: CHEM153, CHEM227, CHEM272 or CHEM277.

Quantitative analysis, inorganic analytical chemistry, and an introduction to bio-analytical instrumentation and techniques.

Students must pay a $40.00 lab materials fee.

8111	Neil Blough F 11:00am - 11:50am MW 12:00pm - 2:50pm	Seats (Total: 18) CHM 1224 ESJ 0312	 Lab
8211	Neil Blough F 11:00am - 11:50am TuTh 12:30pm - 3:20pm	Seats (Total: 18) CHM 1224 ESJ 0312	 Lab

CHEM389A **Pedagogy and Instruction in Chemistry; Instruction in Chemistry**

(Perm req)

Credits: 1 Grading Method: Regular

Methodologies, theory and educational tools applicable to the field of undergraduate chemistry education. Examples covered will use content from introductory general and organic chemistry courses.

0101	Lee Friedman Contact instructor or department for details.	Seats (Total: 25)

CHEM398 **Special Projects**

(Perm req)

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Honors projects for undergraduate students.

Limited to chemistry honors students. Consult with Dr. Montague-Smith.

Contact department for information to register for this course.

CHEM399A **Introduction to Chemical Research**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Basic (chemical) research conducted under the supervision of a faculty member.

Contact department for information to register for this course.

CHEM399B **Introduction to Chemical Research**

(Perm req)

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Basic (chemical) research conducted under the supervision of a faculty member.

Contact department for information to register for this course.

CHEM399C **Introduction to Chemical Research**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Basic (chemical) research conducted under the supervision of a faculty member.

Contact department for information to register for this course.

CHEM399X **Introduction to Chemical Research; Chemistry Instruction**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Basic (chemical) research conducted under the supervision of a faculty member.

0101	Michael Montague-Smith Contact instructor or department for details.	Seats (Total: 8)
0102	Lee Friedman Contact instructor or department for details.	Seats (Total: 30)

CHEM403 **Radiochemistry**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed one year of college chemistry and one year of college physics.

Radioactive decay; introduction to properties of atomic nuclei; nuclear processes in cosmology; chemical, biomedical and environmental applications of radioactivity; nuclear processes as chemical tools; interaction of radiation with matter.

0101	William Walters MWF 12:00pm - 12:50pm	Seats (Total: 45) CHM 1224	

CHEM425 **Instrumental Methods of Analysis**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHEM272 and CHEM271; or (CHEM276 and CHEM277).

Modern instrumentation in analytical chemistry. Electronics, spectroscopy, chromatography and electrochemistry.

Students must pay a $40.00 laboratory materials fee.

0101	Peter Nemes MW 10:00am - 10:50am MW 12:00pm - 2:50pm	Seats (Total: 12) CHM 1402 CHM 3228	 Lab
0102	Peter Nemes MW 10:00am - 10:50am TuTh 12:30pm - 3:20pm	Seats (Total: 12) CHM 1402 CHM 3228	 Lab
0104	Peter Nemes MW 10:00am - 10:50am TuTh 9:30am - 12:20pm	Seats (Total: 12) CHM 1402 CHM 3228	 Lab
0105	Peter Nemes MW 10:00am - 10:50am MW 6:00pm - 8:50pm	Seats (Total: 12) CHM 1402 CHM 3228	 Lab
0109	Peter Nemes MW 10:00am - 10:50am TuTh 6:30pm - 9:20pm	Seats (Total: 12) CHM 1402 CHM 3228	 Lab

CHEM441 **Advanced Organic Chemistry**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in CHEM481; and 1 course with a minimum grade of C- from (CHEM241, CHEM247). Also offered as: CHEM641.

An advanced study of the compounds of carbon, with special emphasis on molecular orbital theory and organic reaction mechanisms.

0101	Osvaldo Gutierrez	Seats (Total: 34)
	MW 4:00pm - 5:15pm	CHM 1228

CHEM460 **Structure Determination Using Spectroscopic Methods**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed CHEM243; or CHEM247; or (CHEM241 and CHEM242). Formerly: CHEM660.

The use of infrared, ultraviolet-visible, proton and carbon-13 nuclear magnetic resonance and mass spectroscopy for structure determination in organic chemistry.

0101	Lyle Isaacs	Seats (Total: 40)
	MWF 10:00am - 10:50am	CHM 1224

CHEM481 **Physical Chemistry I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in CHEM135; or minimum grade of C- in CHEM271 and CHEM272; or minimum grade of C- in CHEM276 and CHEM277. And minimum grade of C- in MATH141. And minimum grade of C- in PHYS260 and PHYS261; or minimum grade of C- in PHYS141.

Thermodynamics and kinetics of chemical and molecular systems. Topics may include internal energy, heat, work, enthalpy, entropy, free energy, and spontaneity as well as reaction order, differential rate laws, integrated rate laws, and rate laws for multi-step processes.

0101	Pratyush Tiwary	Seats (Total: 116)
	MWF 9:00am - 9:50am	CHM 1402

CHEM482 **Physical Chemistry II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in CHEM481.

Quantum mechanical nature of atoms and molecules. Topics may include model systems for electronic, vibrational, rotational and translational energies as well as connections to molecular spectroscopy and thermal distributions.

0101	YuHuang Wang MWF 9:00am - 9:50am	Seats (Total: 42) CHM 0119	

CHEM483 **Physical Chemistry Laboratory I**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in CHEM481.

An introduction to the principles and application of quantitative techniques in physical chemical measurements. Experiments will be coordinated with topics in CHEM481.

Students must pay a $40.00 lab materials fee.

0114	Earle Stone Th 11:00am - 11:50am Tu 9:30am - 12:20pm	Seats (Total: 18) PLS 1130 CHM 3225	 Lab
0124	Earle Stone Th 11:00am - 11:50am Tu 2:00pm - 4:50pm	Seats (Total: 18) PLS 1130 CHM 3225	 Lab
0144	Earle Stone Th 11:00am - 11:50am W 2:00pm - 4:50pm	Seats (Total: 18) PLS 1130 CHM 3225	 Lab

CHEM484 **Physical Chemistry Laboratory II**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHEM481 and CHEM483; and must have completed or be concurrently enrolled in CHEM482.

A continuation of CHEM 483. Advanced quantitative techniques necessary in physical chemical measurements. Experiments will be coordinated with topics in CHEM 482.

Students must pay a $40.00 laboratory materials fee.

0124	Earle Stone Th 3:30pm - 4:20pm W 10:00am - 12:50pm	Seats (Total: 12) CHM 1224 CHM 3221	 Lab
0134	Earle Stone Th 3:30pm - 4:20pm W 3:00pm - 5:50pm	Seats (Total: 12) CHM 1224 CHM 3221	 Lab

CHEM498B **Special Topics in Chemistry; Chemistry of Elements**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

0101	Andrei Vedernikov MWF 1:00pm - 1:50pm	Seats (Total: 15) CHM 0127

CHEM601 **Structure and Bonding of Molecules and Materials**

Credits: 3 Grading Method: Regular, Audit

Development of the tools necessary to use the knowledge of structure an bonding of molecules and solids in the practice of synthetic inorganic and materials chemistry. Several bonding models are covered, from the simple valence bond and ligand field models to a quantitative group theoretical treatment of molecular orbital theory and band structure descriptions of solids. Concepts of electron counting and oxidation state and ligand characteristics are revisited in terms of the more sophisticated bonding models. Finally, these models are used to analyze the reactivity, magnetic and spectroscopic properties of inorganic coordination compounds. Prior advanced inorganic and/or advanced quantum chemistry courses are not prerequisites.

0101	Lawrence Sita MWF 9:00am - 9:50am	Seats (Total: 21) CHM 1224

CHEM608K **Selected Topics in Inorganic Chemistry; Chemistry Teaching and Learning in Higher Education**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Topics of special interest and current importance.

Also offered as BIOL608K, CBMG699K, and ENTM699K. Credit will be granted for only one of the following: BIOL608K, CBMG699K, CHEM608K, or ENTM699K.

0101	Gili Ad-Marbach W 12:00pm - 1:40pm	Seats (Total: 12) BPS 1208

CHEM611 **Professional Skills for New Graduate Students**

Credits: 1

Grading Method: Regular, Audit

Restriction: Must be in one of the following programs (Chemistry (Master's); Biochemistry (Master's); Biochemistry (Doctoral); Chemistry (Doctoral)) ; and must be a new graduate student.

Covers a wide range of topics in professional development for new graduate students.

0101	Efrain Rodriguez	Seats (Total: 35)
	F 2:00pm - 3:15pm	CHM 1228

CHEM624 **Electrical Methods of Quantitative Analysis**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: CHEM482; or students who have taken courses with comparable content may contact the department.

The use of conductivity, potentiometry, polarography, voltammetry, amperometry, coulometry, and chronopotentiometry in quantitative analysis.

0101	Sangbok Lee	Seats (Total: 30)
	TuTh 8:00am - 9:15am	CHM 1224

CHEM625 **Separation Methods in Quantitative Analysis**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: CHEM482; or students who have taken courses with comparable content may contact the department.

The theory and application for quantitative analysis of various forms of chromatography, ion exchange, solvent extraction, distillation, and mass spectroscopy.

0101	Cheng Lee	Seats (Total: 15)
	MW 4:30pm - 5:45pm	CHM 1224

CHEM640 **Problems in Organic Reaction Mechanisms**

Credits: 1

Grading Method: Regular, Audit

A tutorial type course dealing with the basic description of the fundamentals of writing organic reaction mechanisms.

0101	Jeffery Davis F 12:00pm - 12:50pm	Seats (Total: 20) CHM 1228

CHEM641 **Organic Reaction Mechanisms**

Credits: 3 Grading Method: Regular, Audit

Also offered as: CHEM441.

0101	Osvaldo Gutierrez MW 4:00pm - 5:15pm	Seats (Total: 34) CHM 1228

CHEM684 **Chemical Thermodynamics**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: CHEM482; or students who have taken courses with comparable content may contact the department.

0101	John Weeks TuTh 11:00am - 12:15pm	Seats (Total: 29) CHM 1224

CHEM689B **Special Topics in Physical Chemistry**

Credits: 3 Grading Method: Regular, Audit

0101	Zhihong Nie TuTh 2:00pm - 3:15pm	Seats (Total: 20) CHM 1224

CHEM690 **Quantum Chemistry I**

Credits: 3 Grading Method: Regular, Audit

0101	Amy Mullin TuTh 9:30am - 10:45am	Seats (Total: 25) CHM 1228

CHEM699 **Special Problems in Chemistry**

Credits: 1-6 Grading Method: Regular, Audit

Laboratory experience in a research environment.

Open only to non-thesis Master's degree candidates.

Contact department for information to register for this course.

CHEM799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

CHEM889A **Seminar**

Credits: 1 Grading Method: Regular, Audit

0101	YuHuang Wang W 11:00am - 11:50am	Seats (Total: 15) CHM 0112

CHEM889C **Seminar**

Credits: 1 Grading Method: Regular, Audit

0101	Myles Poulin Th 11:00am - 11:50am	Seats (Total: 30) CHM 0112

CHEM889D **Seminar; Organic**

Credits: 1 Grading Method: Regular, Audit

0101	Myles Poulin Th 11:00am - 11:50am	Seats (Total: 20) CHM 0112

CHEM889E **Seminar; Physical Chemistry**

Credits: 1 Grading Method: Regular, Audit

Also offered as CHEM898F and CHPH709A. Credit will be granted for one of the following: CHEM889E, CHEM889F, or CHPH709A.

0101	YuHuang Wang W 11:00am - 11:50am	Seats (Total: 15) CHM 0112

CHEM889F **Seminar; Chemical Physics**

Credits: 1 Grading Method: Regular, Audit

Also offered as CHEM898E and CHPH709A. Credit will be granted for one of the following: CHEM889E, CHEM889F, or CHPH709A.

0101	YuHuang Wang W 11:00am - 11:50am	Seats (Total: 15) CHM 0112

CHEM889M **Seminar; Materials Chemistry**

Credits: 1 Grading Method: Regular, Audit

Contact department for information to register for this course.

CHEM898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

CHEM899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

CHIN Chinese Fall 2018

CHIN101 **Intensive Elementary Chinese I**

(Perm req)

Credits: 6 Grading Method: Regular

Prerequisite: Must have attained appropriate Foreign Language Placement Test (FLPT) score.

Introduction to speaking, reading, and writing Chinese with an emphasis on mastering the essentials of pronunciation, basic characters and structural patterns.

0101	Jungjung Lee-Heitz, Mei Kong MWF 10:00am - 10:50am TuTh 9:30am - 10:45am	Seats (Total: 15) JMZ 1215 JMZ 1215

0201	Mei Kong, Jungjung Lee-Heitz MWF 11:00am - 11:50am TuTh 11:00am - 12:15pm	Seats (Total: 15) JMZ 1215 JMZ 1215
0301	Jungjung Lee-Heitz, Mei Kong MWF 2:00pm - 2:50pm TuTh 2:00pm - 3:15pm	Seats (Total: 15) JMZ 3120 JMZ 3118

CHIN169A **Special Topics in Study Abroad I; Elementary Chinese I**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN169B **Special Topics in Study Abroad I; Elementary Chinese II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN201 **Intermediate Spoken Chinese I**

(Perm req)

Credits: 3 Grading Method: Regular CORE: HO

Prerequisite: CHIN102; or must have attained appropriate Foreign Language Placement Test (FLPT) score. Corequisite: CHIN202. Additional information: Must be taken in conjunction with CHIN202.

Emphasis on development of conversational skills with vocabulary build-up and controlled conversation.

0101	Guiling Hu MWF 11:00am - 11:50am	Seats (Total: 15) JMZ 1103
0201	Yuli Wang MWF 1:00pm - 1:50pm	Seats (Total: 15) JMZ 3120

CHIN202 **Intermediate Written Chinese I**

(Perm req)

Credits: 3 Grading Method: Regular CORE: HO

Prerequisite: CHIN103; or must have attained appropriate Foreign Language Placement Test (FLPT) score. Corequisite: CHIN201. Additional information: Must be taken in conjunction with CHIN201.

Reading and writing skills with emphasis on grammar and Chinese characters.

0101	Minglang Zhou TuTh 11:00am - 12:15pm	Seats (Total: 15) JMZ 3118
0201	Jungjung Lee-Heitz TuTh 12:30pm - 1:45pm	Seats (Total: 15) JMZ 3118

CHIN203 **Intermediate Spoken Chinese II**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO

Prerequisite: CHIN201; or students who have taken courses with comparable content may contact the department; or must have attained appropriate Foreign Language Placement Test (FLPT) score. Corequisite: CHIN204. Additional information: Must be taken in conjunction with CHIN204.

Continuation of CHIN201.

Contact department for information to register for this course.

CHIN269B **Special Topics in Study Abroad II; Chinese Business Issues and Practices**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN269I **Special Topics in Study Abroad II; Intermediate Spoken Chinese I**

Credits: 1-2 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN269P **Special Topics in Study Abroad II; The China Phenomenon**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN269W **Special Topics in Study Abroad II; Chinese Calligraphy II**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN301 **Advanced Chinese I**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: CHIN202; or students who have taken courses with comparable content may contact the department. And must have taken a placement interview offered by the department for Non-majors.

Readings in expository and fictional writing with conversation and composition.

0101	Yuli Wang MWF 11:00am - 11:50am	Seats (Total: 15) JMZ 2117

CHIN305 **Life in China through TV Plays I**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: CHIN203 and CHIN204; or permission of ARHU-School of Languages, Literatures, and Cultures department.

Using authentic Chinese language material in short TV plays to learn about society and life in China.

0101	Yuli Wang MWF 2:00pm - 2:50pm	Seats (Total: 15) JMZ 3118

CHIN307 **Linguistic Landscape of China**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHU

Prerequisite: Must have completed CHIN204 or above; or permission of Chinese Program Advisor.

Comprehensive introduction to Chinese and other major languages in the Sino-Tibetan, Altaic, Austroasiatic, and Austronesian families, all of which are spoken in China. Taught in English.

0101	Minglang Zhou TuTh 9:30am - 10:45am	Seats (Total: 20) JMZ 1224

CHIN313 **Chinese Poetry and Prose in Translation**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit , D

Writing of the major poets, essayists, and historians from the 10th century B.C. to the 12th century A.D. No knowledge of Chinese is required.

Contact department for information to register for this course.

CHIN369B **Special Topics in Study Abroad III; Advanced Chinese I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN369C **Special Topics in Study Abroad III; Advanced Chinese II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN369D **Special Topics in Study Abroad III; Advanced Chinese III**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN369E **Special Topics in Study Abroad III; Advanced Chinese IV**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Prerequisite: Must have learning proposal approved by the Office of Experiential Learning Programs, faculty sponsor, and student's internship sponsor. Restriction: Junior standing or higher.

Contact department for information to register for this course.

CHIN401 **Readings in Modern Chinese I**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: CHIN302; or students who have taken courses with comparable content may contact the department. And must have taken a placement interview offered by the department for Non-majors.

Readings in history, politics, economics, sociology, and literature. Emphasis on wide-ranging, rapid reading, reinforced by conversations and compositions.

0101	Guiling Hu MWF 10:00am - 10:50am	Seats (Total: 17) JMZ 1120
0201	Guiling Hu MWF 1:00pm - 1:50pm	Seats (Total: 15) JMZ 2120

CHIN411 **Business Chinese I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHIN402; or permission of ARHU-School of Languages, Literatures, and Cultures department. And must have taken a placement interview offered by the department for Non-majors.

Conversation, reading, and writing applicable to Chinese business transactions, social meetings, and meetings with government organizations, plus background material in English on professional business practices and social customs associated with business.

0101	Mei Kong MWF 3:00pm - 3:50pm	Seats (Total: 15) JMZ 1226

CHIN499 **Directed Study in Chinese**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail

Readings in Chinese under faculty supervision.

Contact department for information to register for this course.

CHPH Chemical Physics Fall 2018

CHPH618 **Special Projects in Chemical Physics**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Independent reading and study covering chemical physics subject areas not available in other courses.

Contact department for information to register for this course.

CHPH709A **Seminar in Chemical Physics; Physical Chemistry**

Credits: 1 Grading Method: Regular, Audit

Current research and developments in chemical physics.

Also offered as CHEM898E and CHEM898F. Credit will be granted for one of the following: CHEM889E, CHEM889F, or CHPH709A.

0101	YuHuang Wang	Seats (Total: 15)
	W 11:00am - 11:50am	CHM 0112

CHPH709B **Seminar in Chemical Physics; Statistical Physics**

Credits: 1 Grading Method: Regular, Audit

Current research and developments in chemical physics.

Also offered as PHYS709.

0101	John Weeks	Seats (Total: 30)
	Tu 1:15pm - 2:30pm	IPT 1116

CHPH709L **Seminar in Chemical Physics; Biophysics**

Credits: 1 Grading Method: Regular, Audit

Current research and developments in chemical physics.

0101	Arpita Upadhyaya	Seats (Total: 10)
	M 4:00pm - 5:30pm	IPT 1116

CHPH718I **Special Topics in Chemical Physics; Chemical Physics Rotation**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

A discussion of current research problems in chemical physics.

For Chemical Physics Students only.

0201	Garegin Papoian	Seats (Total: 5)
	Contact instructor or department for details.	

CHPH799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

CHPH898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

CHPH899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

CLAS Classics Fall 2018

CLAS169M **Special Topics in Study Abroad I; Myths and Legends**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CLAS169R **Special Topics in Study Abroad I; Ancient Rome: Civilization and Legacy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CLAS170 **Greek and Roman Mythology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HL General Education: DSHU

Also offered as: RELS170. Credit only granted for: CLAS170 or RELS170. Additional information: This course cannot be taken for language credit.

An introduction to the mythology of ancient Greece and Rome. This cours is particularly recommended for students planning to major in foreign languages, English, history, the fine arts, or journalism. Taught in English.

0101	Lillian Doherty MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 26) MMH 1400 PLS 1113	Discussion
0102	Lillian Doherty MW 10:00am - 10:50am Th 11:00am - 11:50am	Seats (Total: 26) MMH 1400 PLS 1117	Discussion
0103	Lillian Doherty MW 10:00am - 10:50am Th 11:00am - 11:50am	Seats (Total: 26) MMH 1400 PLS 1111	Discussion
0104	Lillian Doherty MW 10:00am - 10:50am Th 12:30pm - 1:20pm	Seats (Total: 26) MMH 1400 MTH 1308	Discussion
0105	Lillian Doherty MW 10:00am - 10:50am Th 12:30pm - 1:20pm	Seats (Total: 26) MMH 1400 MTH 0103	Discussion
0201	Lillian Doherty MW 11:00am - 11:50am F 1:00pm - 1:50pm	Seats (Total: 26) MMH 1400 PLS 1115	Discussion
0203	Lillian Doherty MW 11:00am - 11:50am Th 9:30am - 10:20am	Seats (Total: 26) MMH 1400 MTH 0403	Discussion
0205	Lillian Doherty MW 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 26) MMH 1400 CHM 0124	Discussion
FC01	Madeleine Goh TuTh 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 30) TLF 1103	

FC02	Madeleine Goh TuTh 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 30) TLF 1101
FC03	Madeleine Goh MW 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 30) TLF 1101
FC04	Ryan Moore TuTh 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 30) KEY 0116
FCH1	William Proffitt W 6:00pm - 7:15pm Contact instructor or department for details. *Restricted to students in Freshmen Connection.*	Seats (Total: 30) ASY 3207

CLAS180 **Discovering the World of Ancient Greece**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, DSHU

An exploration of the cultural traits and developments of ancient Greek civilization and its forerunners, from the Bronze Age Mycenaeans and Minoans, through the rise of the classical Greek city-states, to the expansion of Greek cultural influence in the wake of the conquests of Alexander the Great. Drawing upon the evidence of the archaeological remains as well as ancient historical and literary documents, students gain a basic familiarity with the principal monuments and artifacts of classical Greek civilization, the various institutions and values that characterized the Greeks, and the significant historical events that transformed the culture over the course of antiquity.

0101	Jorge Bravo MWF 2:00pm - 2:50pm	Seats (Total: 35) LEF 1201

CLAS275 **Why do we laugh?**

Credits: 3 | Grading Method: Regular, Pass-Fail | General Education: DSHU, SCIS

An introduction to the breadth and complexity of humor's role in society. Students will familiarize themselves with the explanations that various disciplines have offered about what makes us laugh, and analyze the major impact humor has in our understanding of who we are and how we see our world.

0101	Francisco Barrenechea TuTh 11:00am - 12:15pm	Seats (Total: 75) TWS 0310

CLAS305 **Archaeological Methods and Practice**

Credits: 3 Grading Method: Regular General Education: DSHS

Prerequisite: ANTH240, ARTH200, or CLAS180. Also offered as: ANTH305, ARTH305. Credit only granted for: ANTH305, ARTH305, or CLAS305.

A team-taught, interdisciplinary course discussing theories, methods, and ethical issues in the practice of archaeology.

For Fall 2018: Also offered ANTH305, ARTH305, and JWST319Y. Credit will only be granted for ANTH305, ARTH305, CLAS305, or JWST319Y.

0101	Matthew Suriano MW 2:00pm - 3:15pm	Seats (Total: 30) WDS 1114

CLAS488R **Independent Study in Classical Civilization; The City of Rome**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

0101	Gregory Bucher MW 3:00pm - 4:15pm	Seats (Total: 35) SKN 0104

CLAS499 **Independent Study in Classical Languages and Literatures**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

CLFS Chemical and Life Sciences Fall 2018

CLFS608 **Seminar in Current Topics in Chemical and Life Science; Scholarly Paper**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Seminar in current topics in the Life Sciences. Contact Program Directo or instructor before registering.

Contact Dr. Brett Kent (bkent@umd.edu) to establish a mentor; and then contact the Office of Extended Studies (oes@umd.edu) to register.

Contact department for information to register for this course.

CLFS608A **Seminar in Current Topics in Chemical and Life Science; Independent Research**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Seminar in current topics in the Life Sciences. Contact Program Directo or instructor before registering.

Contact the Office of Extended Studies (oes@umd.edu) to register.

Contact department for information to register for this course.

CLFS609A **Special Topics; Food Safety and GM Foods**

Credits: 3 Grading Method: Regular, Audit

Individual instruction course. Contact Program Director or instructor before registering.

Must be in Master of Chemical & Life Sciences program. For permission to enroll, must be admitted into a term-based calendar graduate program. Contact oes@umd.edu.

PL01	Lucinda Jack	Seats (Total: 4)
	Meets August 27, 2018 - November 16, 2018	
	Class time/details on ELMs	ONLINE

CLFS609E **Special Topics; Immunology**

Credits: 3 Grading Method: Regular, Audit

Individual instruction course. Contact Program Director or instructor before registering.

Must be in Master of Chemical & Life Sciences program. For permission to enroll, must be admitted into a term-based calendar graduate program. Contact oes@umd.edu.

PL01	Kenneth Frauwirth	Seats (Total: 8)
	Meets August 27, 2018 - November 16, 2018	
	Class time/details on ELMs	ONLINE

CLFS610 **Natural Products Chemistry**

Credits: 3 Grading Method: Regular

Restriction: Permission of CMNS-Chemical & Life Sciences department. Credit only granted for: LFSC609D or LFSC610. Formerly: LFSC609D.

Foundations of natural products chemistry; how nature goes about making (biosynthesizing) these compounds and elements of enzymology and genomics relevant to production of these compounds; relevance of natural products chemistry as a driving force for drug discovery and innovation in biotechnology.

Must be in Master of Chemical & Life Sciences program. For permission to enroll, must be admitted into a term-based calendar graduate program. Contact oes@umd.edu.

Click here for program information.

PL01	Marjan Alaghmand **Meets August 27, 2018 - November 16, 2018** Class time/details on ELMs	Seats (Total: 7) ONLINE

CLFS620 **Modern Molecular Genetics**

Credits: 3 | Grading Method: Regular, Audit

An overview of genetics including the genetic basis/components in prevalent diseases, genetically engineered organisms and foods, the importance of knowing the complete DNA sequence of organisms.

Must be in Master of Chemical & Life Sciences program. For permission to enroll, must be admitted into a term-based calendar graduate program. Contact oes@umd.edu.

Click here for program information.

PL01	Paul Bottino **Meets August 27, 2018 - November 16, 2018** Class time/details on ELMs	Seats (Total: 4) ONLINE

CMLT Comparative Literature Fall 2018

CMLT235 **Black Diaspora Literature and Culture**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HL, D | General Education: DSHU, DVUP

Credit only granted for: CMLT235 or ENGL235.

Examination of key works by writers of the African Diaspora. Relationship among black people across multiple geographic spaces; Africa, the Caribbean, the United States, Europe, Latin America, and Asia. Specific historical, cultural, and literary contexts; themes such as gender, sexuality, migration, slavery, freedom, and equality. Readings may include literary texts (fiction, poetry, drama), music and film. All readings in English, but drawn from multiple languages of the black diaspora, including English, Spanish, French and Portuguese.

0101	Steve Beaulieu TuTh 9:30am - 10:45am	Seats (Total: 30) VMH 1203

CMLT269C **Special Topics in Study Abroad II; Modern Catalan Literature**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CMLT270 **Global Literature and Social Change**

Credits: 3 Grading Method: Regular CORE: HL, D General Education: DSHU, DVUP

Comparative study of literature through selected literary works from several non-Western cultures, viewed cross-culturally in light of particular social, political, and economic perspectives.

0101	Fatima Taha TuTh 2:00pm - 3:15pm	Seats (Total: 30) TWS 0236
0201	Aqdas Aftab MWF 11:00am - 11:50am	Seats (Total: 30) HBK 1112

CMLT275 **World Literature by Women**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HL, D General Education: DSHU, DVUP

Also offered as: WMST275. Credit only granted for: CMLT275 or WMST275.

Comparative study of selected works by women writers of several countries, exploring points of intersection and divergence in women's literary representations.

0201	Tung-An Wei MW 2:00pm - 3:15pm	Seats (Total: 30) TWS 0234

0301	Uchechi Okereke-Beshel TuTh 5:00pm - 6:15pm	Seats (Total: 30) KEY 0125

CMLT277 **Literatures of the Americas**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HL, D | General Education: DSHU, DVUP

Comparative study of several North, South, and Central American culture with a focus on the specificities, similarities, and divergences of their literary and cultural texts.

0101	John Macintosh TuTh 2:00pm - 3:15pm	Seats (Total: 30) TWS 0214

CMLT280 **Film Art in a Global Society**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HA, D | General Education: DSHU, DVUP

Comparative study of a variety of film traditions from around the world including cinema from Hollywood, Europe, Asia and developing countries, with a stress on different cultural contexts for film-making and viewing.

0101	Manon Soulet MWF 12:00pm - 12:50pm	Seats (Total: 30) ASY 3219
0201	Paul Cote TuTh 11:00am - 12:15pm	Seats (Total: 30) JMZ 0122

CMLT298A **Topics in Comparative Studies; The Jewish Image on Screen (Film/TV/Web)**

Credits: 3-6 | Grading Method: Regular, Pass-Fail, Audit

Also offered as JWST219A and FILM298C. Credit only granted for JWST219A, CMLT298A, or FILM298C. The different ways that the Jewish image has been represented in cinema over time, including film, television, and the Internet will be explored. Representations will include secular and religious communities; Orthodox and Haredi Jews; LGBTQ and Jews of Color; intergenerational conflict; various countries of origin (especially Israel and the US); and more.

0101	Shalom Rosenberg TuTh 11:00am - 12:15pm	Seats (Total: 25) HBK 0109

CMLT369A **Special Topics in Study Abroad III; Postcolonial Literatures in English I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CMLT369T **Special Topics in Study Abroad III; Politics and Literature in the 20th Century**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CMLT369X **Special Topics in Study Abroad III; Shakespeare and Lope de Vega**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CMLT386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Restriction: Junior standing or higher; and permission of ARHU-English department.

Contact department for information to register for this course.

CMLT398B **Special Topics in Comparative Studies; The Self and the "Other" in Israeli Culture: Literature, Film, and Television**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics in comparitive studies.

Also offered as CMLT398B, FILM329J, HEBR498Q and JWST319Q. Credit granted only for ISRL349Q, CMLT398B, FILM329J, HEBR498Q, or JWST319Q. Modern Israel includes people of many different faiths, ethnicities, languages, and cultures, but Jews of European origin have generally dominated its political and cultural climate. Through literature and film, we will explore how the sense of the "self" is constructed and how the "other" is imagined in Israeli culture. "Others" include Palestinians, Sephardim, Mizrahim, non-Zionists, women, and Eastern Europeans who do not relinquish their ties to the past, as well as other individuals who resist the collective ideologies of a nation constructing itself.

0101	Chen Edrei	Seats (Total: 40)
	TuTh 11:00am - 12:15pm	HBK 0103

CMLT398F **Special Topics in Comparative Studies; Comparative Black and Native American Literature**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics in comparitive studies.

Also offered as ENGL379A. Credit only granted for CMLT398F or ENGL379A.

0101	Chad Infante	Seats (Total: 25)
	TuTh 2:00pm - 3:15pm	TWS 1107

CMLT398L **Special Topics in Comparative Studies; Sexuality in the Cinema**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics in comparitive studies.

Also offered as ENGL329C. Credit will be granted for only one of the following: CMLT398L, CMLT498L, or ENGL329C.

0101	Eugene Robinson	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

CMLT398N **Special Topics in Comparative Studies; Gypsy Culture**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics in comparitive studies.

Also offered as ENGL379V. Credit will be granted for only one of the following: CMLT398N, CMLT498N, or ENGL379V.

0101	Eugene Robinson	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

CMLT398T **Special Topics in Comparative Studies; Postcolonial Literature in English I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics in comparitive studies.

Contact department for information to register for this course.

CMLT498V **Selected Topics in Comparative Studies; Lost in Translation**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

CMLT679D **Topics in Comparative Studies; Sex, Gender, and Sexuality in the Islamic World**

Credits: 3 Grading Method: Regular, Audit

Seminar in modern and contemporary literature: as announced.

Also offered as PERS 498M, PERS 689M, HIST 419C, HIST 619E, WMST 498D, and WMST 698D. Credit only granted for PERS 498M, PERS 689M, CMLT 679D, HIST 419C, HIST 619E, WMST 498D, or WMST 698D. Sex, Gender, and Sexuality in the Islamic World is an advanced introduction to the study of the changing norms of sex, gender, and sexuality in the Islamicate world, past and present. Through engagement with primary source readings, recent scholarly studies, and theoretical literature from Gender and Sexuality Studies and Queer Theory, we will cover such topics as: Islamic sexual ethics; homo- and heteroerotic poetry and art of both the spiritual and profane varieties; transvestism , androgyny, and gender nonconformity in the medieval Islamic world; premodern Islamic medical and courtly advice literature on sex; and the construction of "sexuality" (homo- and heterosexuality) in the modern Middle East. The course does not require any prior knowledge of Gender and Sexuality Studies or Islamicate cultures and languages.

0101	Matthew Miller	Seats (Total: 15)
	W 6:30pm - 9:00pm	JMZ 0120

CMLT679K **Topics in Comparative Studies; Media and Media Theory from the Renaissance through to Romanticism**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Seminar in modern and contemporary literature: as announced.

Also offered as ENGL702. Credit only granted for ENGL702 or CMLT679K.

0101	Orrin Wang, Scott Trudell	Seats (Total: 9)
	W 3:30pm - 6:00pm	TWS 3134

CMLT679T **Topics in Comparative Studies; Seminar in Poetry Translation**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Seminar in modern and contemporary literature: as announced.

Also offered as ENGL479Y. Credit granted for ENGL479Y or CMLT679T.

0101	Michael Collier	Seats (Total: 20)
	Tu 3:30pm - 6:00pm	TWS 3132

CMLT699 **Independent Study**

(Perm req)

Credits: 1-6 Grading Method: Regular

Research and writing on specific readings on a topic selected by the student which is approved and supervised by a faculty member.

Contact department for information to register for this course.

CMLT788I **Practicum in Comparative Studies; Themes and Methods in Comparative Studies**

Credits: 1 Grading Method: Sat-Fail

Practical professional training for individuals and groups of students in supervised settings.

Class meets from 1:30pm-3:30pm in TWS 3134 on the following dates: 9/29, 10/27, 11/10.

0101	Instructor: TBA	Seats (Total: 10)
	Contact instructor or department for details.	

CMLT799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

CMLT898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

CMLT899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

CMSC Computer Science Fall 2018

CMSC100 **Bits and Bytes of Computer Science**

(Perm req)

Credits: 1 Grading Method: Regular

Restriction: For first time freshmen and first time transfer computer science majors.

Students are introduced to the field (and disciplines) of computer science within a small classroom setting. They will learn to make a successful transition from high school to the university, while exploring study skills, student success plans and research opportunities.

0101	Amy Vaillancourt M 4:00pm - 4:50pm	Seats (Total: 25) CSI 1121
0201	Alyssa Neuner W 4:00pm - 4:50pm	Seats (Total: 25) CSI 1121

CMSC106 **Introduction to C Programming**

Credits: 4 Grading Method: Regular

Prerequisite: MATH115. Restriction: Must not be in Computer Science program; and must not have completed any courses from CMSC131-499 course range. Credit only granted for: CMSC106, CMSC122, or INST126.

Design and analysis of programs in C. An introduction to computing using structured programming concepts. Intended for students with no or minimal programming experience.

0101	Ilchul Yoon MW 2:00pm - 3:15pm MW 5:00pm - 5:50pm	Seats (Total: 50) CSI 3117 CSI 1121	 Discussion

CMSC122 **Introduction to Computer Programming via the Web**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: IE General Education: DSSP

Restriction: Must not have completed any courses from CMSC131-499 course range; and must not be concurrently enrolled in CMSC131. Credit only granted for: CMSC106, CMSC122, or INST126.

Introduction to computer programming in the context of developing full featured dynamic web sites. Uses a problem solving approach to teach basics of program design and implementation using JavaScript; relates these skills to creation of dynamic web sites; then explores both the potential and limits of web-based information sources for use in research. Intended to help relate a student's major to these emerging technologies.

0101	Ilchul Yoon MWF 9:00am - 9:50am	Seats (Total: 145) CSI 1115

0201	Ilchul Yoon MWF 11:00am - 11:50am	Seats (Total: 107) TWS 0310	

CMSC131 **Object-Oriented Programming I**

(Perm req)

Credits: 4 Grading Method: Regular

Corequisite: MATH140; and permission of CMNS-Computer Science department.

Introduction to programming and computer science. Emphasizes understanding and implementation of applications using object-oriented techniques. Develops skills such as program design and testing as well as implementation of programs using a graphical IDE. Programming done in Java.

0101	Evan Golub MWF 4:00pm - 4:50pm MW 8:00am - 8:50am	Seats (Total: 40) ESJ 0202 CSI 2120	 Discussion
0102	Evan Golub MWF 4:00pm - 4:50pm MW 2:00pm - 2:50pm	Seats (Total: 40) ESJ 0202 CSI 1121	 Discussion
0103	Evan Golub MWF 4:00pm - 4:50pm MW 10:00am - 10:50am	Seats (Total: 40) ESJ 0202 CSI 2120	 Discussion
0104	Evan Golub MWF 4:00pm - 4:50pm MW 11:00am - 11:50am	Seats (Total: 40) ESJ 0202 CSI 2120	 Discussion
0105	Evan Golub MWF 4:00pm - 4:50pm MW 2:00pm - 2:50pm	Seats (Total: 40) ESJ 0202 CSI 2120	 Discussion
0106	Evan Golub MWF 4:00pm - 4:50pm MW 9:00am - 9:50am	Seats (Total: 40) ESJ 0202 CSI 2120	 Discussion
0107	Evan Golub MWF 4:00pm - 4:50pm MW 10:00am - 10:50am	Seats (Total: 44) ESJ 0202 CSI 1122	 Discussion

0108	Evan Golub MWF 4:00pm - 4:50pm MW 11:00am - 11:50am	Seats (Total: 44) ESJ 0202 CSI 1122	 Discussion
0201	Fawzi Emad MWF 5:00pm - 5:50pm MW 2:00pm - 2:50pm	Seats (Total: 36) CSI 1115 CSI 2118	 Discussion
0202	Fawzi Emad MWF 5:00pm - 5:50pm MW 8:00am - 8:50am	Seats (Total: 36) CSI 1115 CSI 1121	 Discussion
0203	Fawzi Emad MWF 5:00pm - 5:50pm MW 4:00pm - 4:50pm	Seats (Total: 36) CSI 1115 CSI 2118	 Discussion
0204	Fawzi Emad MWF 5:00pm - 5:50pm MW 9:00am - 9:50am	Seats (Total: 36) CSI 1115 CSI 3117	 Discussion
0401	Fawzi Emad MWF 3:00pm - 3:50pm MW 1:00pm - 1:50pm	Seats (Total: 36) ESJ 0202 CSI 2120	 Discussion
0402	Fawzi Emad MWF 3:00pm - 3:50pm TuTh 10:00am - 10:50am	Seats (Total: 32) ESJ 0202 CSI 2118	 Discussion
0403	Fawzi Emad MWF 3:00pm - 3:50pm MW 12:00pm - 12:50pm	Seats (Total: 66) ESJ 0202 ESJ 0215	 Discussion
0404	Fawzi Emad MWF 3:00pm - 3:50pm TuTh 1:00pm - 1:50pm	Seats (Total: 34) ESJ 0202 CSI 3120	 Discussion
0406	Fawzi Emad MWF 3:00pm - 3:50pm MW 1:00pm - 1:50pm	Seats (Total: 34) ESJ 0202 CSI 2118	 Discussion

0407	Fawzi Emad MWF 3:00pm - 3:50pm MW 10:00am - 10:50am	Seats (Total: 66) ESJ 0202 ESJ 0215	 Discussion
0409	Fawzi Emad MWF 3:00pm - 3:50pm MW 2:00pm - 2:50pm	Seats (Total: 42) ESJ 0202 ESJ 1309	 Discussion
0501	Mohammad Nayeem Teli MWF 11:00am - 11:50am TuTh 8:00am - 8:50am	Seats (Total: 40) ESJ 1224 CSI 2107	 Discussion
0502	Mohammad Nayeem Teli MWF 11:00am - 11:50am TuTh 9:30am - 10:20am	Seats (Total: 40) ESJ 1224 CSI 2107	 Discussion
0503	Mohammad Nayeem Teli MWF 11:00am - 11:50am MW 5:00pm - 5:50pm	Seats (Total: 36) ESJ 1224 CSI 2120	 Discussion
FC01	Nelson Padua-Perez MW 6:00pm - 7:15pm Tu 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 145) CSI 1115 CSI 1115	 Discussion

CMSC131A **Object-Oriented Programming I**

(Perm req)

Credits: 4 Grading Method: Regular

Corequisite: MATH140; and permission of CMNS-Computer Science department.

Introduction to programming and computer science. Emphasizes understanding and implementation of applications using object-oriented techniques. Develops skills such as program design and testing as well as implementation of programs using a graphical IDE. Programming done in Java.

0101	David Van Horn MWF 11:00am - 11:50am MW 12:00pm - 12:50pm	Seats (Total: 33) CSI 3117 CSI 2120	 Discussion
0103	David Van Horn MWF 11:00am - 11:50am MW 4:00pm - 4:50pm	Seats (Total: 29) CSI 3117 CSI 2120	 Discussion

CMSC132 **Object-Oriented Programming II**

(Perm req)

Credits: 4 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC131; or must have earned a score of 5 on the A Java AP exam. Or permission of the department based on satisfactory performance on the department placement exam; and minimum grade of C- in MATH140; and permission of CMNS-Computer Science department.

Introduction to use of computers to solve problems using software engineering principles. Design, build, test, and debug medium -size software systems and learn to use relevant tools. Use object-oriented methods to create effective and efficient problem solutions. Use and implement application programming interfaces (APIs). Programming done in Java.

0101	Nelson Padua-Perez MWF 11:00am - 11:50am MW 3:00pm - 3:50pm	Seats (Total: 34) ESJ 0202 CSI 2107	 Discussion
0102	Nelson Padua-Perez MWF 11:00am - 11:50am MW 4:00pm - 4:50pm	Seats (Total: 34) ESJ 0202 CSI 2107	 Discussion
0103	Nelson Padua-Perez MWF 11:00am - 11:50am MW 10:00am - 10:50am	Seats (Total: 34) ESJ 0202 CSI 2107	 Discussion
0104	Nelson Padua-Perez MWF 11:00am - 11:50am MW 5:00pm - 5:50pm	Seats (Total: 34) ESJ 0202 CSI 2107	 Discussion
0201	Nelson Padua-Perez MWF 10:00am - 10:50am TuTh 8:00am - 8:50am	Seats (Total: 32) ESJ 2204 CSI 2118	 Discussion
0202	Nelson Padua-Perez MWF 10:00am - 10:50am TuTh 9:00am - 9:50am	Seats (Total: 32) ESJ 2204 CSI 2118	 Discussion
0203	Nelson Padua-Perez MWF 10:00am - 10:50am TuTh 11:00am - 11:50am	Seats (Total: 32) ESJ 2204 CSI 3120	 Discussion

0204	Nelson Padua-Perez MWF 10:00am - 10:50am TuTh 12:00pm - 12:50pm	Seats (Total: 32) ESJ 2204 CSI 3120	Discussion
0301	Pedram Sadeghian MWF 12:00pm - 12:50pm MW 11:00am - 11:50am	Seats (Total: 32) CSI 1115 CSI 2107	Discussion
0302	Pedram Sadeghian MWF 12:00pm - 12:50pm MW 9:00am - 9:50am	Seats (Total: 32) CSI 1115 CSI 2107	Discussion
0303	Pedram Sadeghian MWF 12:00pm - 12:50pm MW 9:00am - 9:50am	Seats (Total: 32) CSI 1115 CSI 1121	Discussion
0304	Pedram Sadeghian MWF 12:00pm - 12:50pm MW 8:00am - 8:50am	Seats (Total: 32) CSI 1115 CSI 3117	Discussion
0401	Pedram Sadeghian MWF 1:00pm - 1:50pm MW 8:00am - 8:50am	Seats (Total: 36) CSI 1115 CSI 3118	Discussion
0402	Pedram Sadeghian MWF 1:00pm - 1:50pm MW 9:00am - 9:50am	Seats (Total: 36) CSI 1115 CSI 3118	Discussion
0403	Pedram Sadeghian MWF 1:00pm - 1:50pm MW 10:00am - 10:50am	Seats (Total: 36) CSI 1115 CSI 2118	Discussion
0404	Pedram Sadeghian MWF 1:00pm - 1:50pm MW 11:00am - 11:50am	Seats (Total: 36) CSI 1115 CSI 2118	Discussion
0501	Nelson Padua-Perez MWF 11:00am - 11:50am MW 3:00pm - 3:50pm	Seats (Total: 36) ESJ 0202 CSI 1121	Discussion

0502	Nelson Padua-Perez MWF 11:00am - 11:50am MW 12:00pm - 12:50pm	Seats (Total: 36) ESJ 0202 CSI 2107	Discussion
0503	Nelson Padua-Perez MWF 11:00am - 11:50am MW 1:00pm - 1:50pm	Seats (Total: 36) ESJ 0202 CSI 2107	Discussion
0504	Nelson Padua-Perez MWF 11:00am - 11:50am MW 2:00pm - 2:50pm	Seats (Total: 36) ESJ 0202 CSI 2107	Discussion

CMSC216 **Introduction to Computer Systems**

(Perm req)

Credits: 4 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC132; and minimum grade of C- in MATH141. Corequisite: CMSC250. Credit only granted for: CMSC212, (CMSC213 and CMSC313), or CMSC216.

Machine representation of data including integers and floating point. Modern computer architectural features and their interaction with software (registers, caches). Interaction between user programs and the OS: system class, process, and thread management. Optimizing software to improve runtime performance using both compilers and hand turning.

0101	Laurence Herman TuTh 11:00am - 12:15pm MW 8:00am - 8:50am	Seats (Total: 32) ESJ 0202 CSI 1122	Discussion
0102	Laurence Herman TuTh 11:00am - 12:15pm MW 9:00am - 9:50am	Seats (Total: 32) ESJ 0202 CSI 1122	Discussion
0103	Laurence Herman TuTh 11:00am - 12:15pm MW 10:00am - 10:50am	Seats (Total: 32) ESJ 0202 CSI 3118	Discussion
0104	Laurence Herman TuTh 11:00am - 12:15pm MW 12:00pm - 12:50pm	Seats (Total: 32) ESJ 0202 CSI 1122	Discussion
0105	Laurence Herman TuTh 11:00am - 12:15pm MW 11:00am - 11:50am	Seats (Total: 32) ESJ 0202 CSI 3118	Discussion

0106	Laurence Herman TuTh 11:00am - 12:15pm MW 1:00pm - 1:50pm	Seats (Total: 32) ESJ 0202 CSI 3120	Discussion
0107	Laurence Herman TuTh 11:00am - 12:15pm MW 3:00pm - 3:50pm	Seats (Total: 32) ESJ 0202 CSI 2118	Discussion
0108	Laurence Herman TuTh 11:00am - 12:15pm MW 3:00pm - 3:50pm	Seats (Total: 32) ESJ 0202 CSI 2120	Discussion
0301	Laurence Herman TuTh 5:00pm - 6:15pm MW 12:00pm - 12:50pm	Seats (Total: 32) ESJ 0202 CSI 3120	Discussion
0302	Laurence Herman TuTh 5:00pm - 6:15pm MW 2:00pm - 2:50pm	Seats (Total: 32) ESJ 0202 CSI 3118	Discussion
0303	Laurence Herman TuTh 5:00pm - 6:15pm MW 1:00pm - 1:50pm	Seats (Total: 32) ESJ 0202 CSI 1122	Discussion
0304	Laurence Herman TuTh 5:00pm - 6:15pm MW 1:00pm - 1:50pm	Seats (Total: 34) ESJ 0202 CSI 2117	Discussion
0305	Laurence Herman TuTh 5:00pm - 6:15pm MW 3:00pm - 3:50pm	Seats (Total: 32) ESJ 0202 CSI 3118	Discussion
0306	Laurence Herman TuTh 5:00pm - 6:15pm MW 4:00pm - 4:50pm	Seats (Total: 32) ESJ 0202 CSI 3118	Discussion
0307	Laurence Herman TuTh 5:00pm - 6:15pm MW 4:00pm - 4:50pm	Seats (Total: 32) ESJ 0202 CSI 3120	Discussion

0308	Laurence Herman TuTh 5:00pm - 6:15pm MW 5:00pm - 5:50pm	Seats (Total: 32) ESJ 0202 CSI 3118	Discussion
0401	Pedram Sadeghian TuTh 12:30pm - 1:45pm MW 10:00am - 10:50am	Seats (Total: 36) CSI 1115 CSI 3117	Discussion
0402	Pedram Sadeghian TuTh 12:30pm - 1:45pm MW 5:00pm - 5:50pm	Seats (Total: 36) CSI 1115 CSI 2117	Discussion
0404	Pedram Sadeghian TuTh 12:30pm - 1:45pm MW 2:00pm - 2:50pm	Seats (Total: 36) CSI 1115 CSI 1122	Discussion

CMSC250 **Discrete Structures**

(Perm req)

Credits: 4 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC131; and minimum grade of C- in MATH141. Restriction: Permission of CMNS-Computer Science department. Formerly: CMSC150.

Fundamental mathematical concepts related to computer science, includin finite and infinite sets, relations, functions, and propositional logic. Introduction to other techniques, modeling and solving problems in computer science. Introduction to permutations, combinations, graphs, and trees with selected applications.

0101	Clyde Kruskal TuTh 3:30pm - 4:45pm MW 10:00am - 10:50am	Seats (Total: 34) CSI 1115 CSI 3120	Discussion
0102	Clyde Kruskal TuTh 3:30pm - 4:45pm MW 11:00am - 11:50am	Seats (Total: 32) CSI 1115 CSI 3120	Discussion
0103	Clyde Kruskal TuTh 3:30pm - 4:45pm MW 12:00pm - 12:50pm	Seats (Total: 32) CSI 1115 CSI 3118	Discussion
0104	Clyde Kruskal TuTh 3:30pm - 4:45pm MW 10:00am - 10:50am	Seats (Total: 34) CSI 1115 CSI 2117	Discussion

0201	Jason Filippou TuTh 12:30pm - 1:45pm MW 2:00pm - 2:50pm	Seats (Total: 36) ESJ 0202 CSI 3120	Discussion
0202	Jason Filippou TuTh 12:30pm - 1:45pm MW 10:00am - 10:50am	Seats (Total: 36) ESJ 0202 CSI 1121	Discussion
0203	Jason Filippou TuTh 12:30pm - 1:45pm MW 11:00am - 11:50am	Seats (Total: 34) ESJ 0202 CSI 1121	Discussion
0204	Jason Filippou TuTh 12:30pm - 1:45pm MW 12:00pm - 12:50pm	Seats (Total: 32) ESJ 0202 CSI 2117	Discussion
0205	Jason Filippou TuTh 12:30pm - 1:45pm MW 8:00am - 8:50am	Seats (Total: 32) ESJ 0202 CSI 3120	Discussion
0206	Jason Filippou TuTh 12:30pm - 1:45pm MW 9:00am - 9:50am	Seats (Total: 34) ESJ 0202 CSI 3120	Discussion
0207	Jason Filippou TuTh 12:30pm - 1:45pm MW 1:00pm - 1:50pm	Seats (Total: 32) ESJ 0202 CSI 3118	Discussion
0208	Jason Filippou TuTh 12:30pm - 1:45pm MW 3:00pm - 3:50pm	Seats (Total: 32) ESJ 0202 CSI 3120	Discussion
0401	Roger Eastman TuTh 2:00pm - 3:15pm MW 8:00am - 8:50am	Seats (Total: 34) ESJ 0202 CSI 2117	Discussion
0402	Roger Eastman TuTh 2:00pm - 3:15pm MW 9:00am - 9:50am	Seats (Total: 32) ESJ 0202 CSI 2117	Discussion

0403	Roger Eastman TuTh 2:00pm - 3:15pm MW 5:00pm - 5:50pm	Seats (Total: 34) ESJ 0202 CSI 1122	Discussion
0404	Roger Eastman TuTh 2:00pm - 3:15pm MW 11:00am - 11:50am	Seats (Total: 32) ESJ 0202 CSI 2117	Discussion
0405	Roger Eastman TuTh 2:00pm - 3:15pm MW 5:00pm - 5:50pm	Seats (Total: 32) ESJ 0202 CSI 3117	Discussion
0406	Roger Eastman TuTh 2:00pm - 3:15pm MW 5:00pm - 5:50pm	Seats (Total: 32) ESJ 0202 CSI 3120	Discussion
0407	Roger Eastman TuTh 2:00pm - 3:15pm MW 8:00am - 8:50am	Seats (Total: 32) ESJ 0202 CSI 2118	Discussion
0408	Roger Eastman TuTh 2:00pm - 3:15pm MW 9:00am - 9:50am	Seats (Total: 32) ESJ 0202 CSI 2118	Discussion

CMSC298A **Special Topics in Computer Science**

(Perm req)

Credits: 1-4 Grading Method: Sat-Fail

A course designed to allow a lower level student to pursue a specialize topic or project.

Contact department for information to register for this course.

CMSC320 **Introduction to Data Science**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC216 and CMSC250. Restriction: Permission of CMNS-Computer Science department.

An introduction to the data science pipeline, i.e., the end-to-end process of going from unstructured, messy data to knowledge and actionable insights. Provides a broad overview of several topics including statistical data analysis, basic data mining and machine learning algorithms, large-scale data management, cloud computing, and information visualization.

0101	John Dickerson, Prem Saggar MW 2:00pm - 3:15pm	Seats (Total: 230) ESJ 0224	

CMSC330 **Organization of Programming Languages**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC250 and CMSC216. Restriction: Must be in a major within the CMNS-Computer Science department; or must be in the Computer Science Minor program; or must be in Engineering: Computer program.

A study of programming languages, including their syntax, semantics, and implementation. Several different models of languages are discussed, including dynamic, scripting (e.g., Ruby, Python) functional (e.g., OCaml, Haskell, Scheme), and memory safe systems programming (e.g., Rust). Explores language features such as formal syntax, scoping and binding of variables, higher-order programming, typing, and type polymorphism. Introduces finite automata, context free grammar, parsing, lambda calculus, and basics of security attacks and software security.

0101	Anwar Mamat TuTh 3:30pm - 4:45pm F 1:00pm - 1:50pm	Seats (Total: 32) ESJ 0202 CSI 2120	 Discussion
0102	Anwar Mamat TuTh 3:30pm - 4:45pm F 11:00am - 11:50am	Seats (Total: 32) ESJ 0202 CSI 2120	 Discussion
0103	Anwar Mamat TuTh 3:30pm - 4:45pm F 12:00pm - 12:50pm	Seats (Total: 32) ESJ 0202 CSI 2120	 Discussion
0104	Anwar Mamat TuTh 3:30pm - 4:45pm F 2:00pm - 2:50pm	Seats (Total: 32) ESJ 0202 CSI 2120	 Discussion
0105	Anwar Mamat TuTh 3:30pm - 4:45pm F 10:00am - 10:50am	Seats (Total: 32) ESJ 0202 CSI 3120	 Discussion
0106	Anwar Mamat TuTh 3:30pm - 4:45pm F 11:00am - 11:50am	Seats (Total: 32) ESJ 0202 CSI 3120	 Discussion

0107	Anwar Mamat TuTh 3:30pm - 4:45pm F 12:00pm - 12:50pm	Seats (Total: 32) ESJ 0202 CSI 3120	Discussion
0108	Anwar Mamat TuTh 3:30pm - 4:45pm F 1:00pm - 1:50pm	Seats (Total: 32) ESJ 0202 CSI 3120	Discussion
0301	Roger Eastman TuTh 8:00am - 9:15am F 3:00pm - 3:50pm	Seats (Total: 32) CSI 1115 CSI 2120	Discussion
0302	Roger Eastman TuTh 8:00am - 9:15am F 2:00pm - 2:50pm	Seats (Total: 32) CSI 1115 CSI 3120	Discussion
0303	Roger Eastman TuTh 8:00am - 9:15am F 3:00pm - 3:50pm	Seats (Total: 32) CSI 1115 CSI 3120	Discussion
0304	Roger Eastman TuTh 8:00am - 9:15am F 10:00am - 10:50am	Seats (Total: 32) CSI 1115 CSI 2120	Discussion
0401	Anwar Mamat TuTh 9:30am - 10:45am F 10:00am - 10:50am	Seats (Total: 35) CSI 1115 CSI 2107	Discussion
0402	Anwar Mamat TuTh 9:30am - 10:45am F 11:00am - 11:50am	Seats (Total: 35) CSI 1115 CSI 2107	Discussion
0403	Anwar Mamat TuTh 9:30am - 10:45am F 12:00pm - 12:50pm	Seats (Total: 35) CSI 1115 CSI 2107	Discussion
0404	Anwar Mamat TuTh 9:30am - 10:45am F 1:00pm - 1:50pm	Seats (Total: 35) CSI 1115 CSI 2107	Discussion

CMSC351 Algorithms

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC250 and CMSC216; and permission of CMNS-Computer Science department. Credit only granted for: CMSC251 or CMSC351. Additional information: CMSC351 may not count as one of the required upper level CMSC courses for students who are required to have 24 upper level CMSC credits for graduation, i.e. for students who became computer science majors prior to Fall, 2002.

A systematic study of the complexity of some elementary algorithms related to sorting, graphs and trees, and combinatorics. Algorithms are analyzed using mathematical techniques to solve recurrences and summations.

0101	Mohammad Nayeem Teli MWF 2:00pm - 2:50pm	Seats (Total: 140) CSI 1115
0201	Mohammad Nayeem Teli MWF 12:00pm - 12:50pm	Seats (Total: 150) ESJ 2204
0301	Clyde Kruskal MWF 4:00pm - 4:50pm	Seats (Total: 140) CSI 1115
0401	Clyde Kruskal MWF 3:00pm - 3:50pm	Seats (Total: 140) CSI 1115

CMSC389C **Special Topics in Computer Science; Bitcoin and Other Cryptocurrencies**

(Perm req)

Credits: 1 Grading Method: Regular

Seminar courses that allow students to pursue new and emerging areas of Computer Science; course may be used as electives for the undergraduate degree and minor.

Prerequisites: CMSC216 and CMSC250 with a grade of C- or better; and permission of the Computer Science department. This course provides a comprehensive, practical introduction to the technology behind cryptocurrency and the economy surrounding it. This course will have a heavy emphasis on Bitcoin, but will dive into other types of cryptocurrency as well, such as Ethereum. This course is primarily intended to focus on the technological aspect of cryptocurrency, but we will also spend time discussing the economics of cryptocurrency.

0101	Jonathan Katz F 1:00pm - 1:50pm	Seats (Total: 30) BPS 1238

CMSC389E **Special Topics in Computer Science; Digital Logic Design through Minecraft**

(Perm req)

Credits: 1 Grading Method: Regular

Seminar courses that allow students to pursue new and emerging areas of Computer Science; course may be used as electives for the undergraduate degree and minor.

Prerequisites Minimum grade of C- in CMSC216; and 1 course with a minimum grade of C- from (CMSC250, ENEE244). This class explores the fundamentals of digital logic design using Minecraft's Redstone. Using the low-level and intuitive visualization of circuitry Redstone provides, you will create a series of projects that apply principles of digital logic design learned in class.

0101	Jason Filippou	Seats (Total: 30)
	F 1:00pm - 1:50pm	CSI 3118

CMSC389F **Special Topics in Computer Science; Reinforcement Learning**

(Perm req)

Credits: 1 Grading Method: Regular

Seminar courses that allow students to pursue new and emerging areas of Computer Science; course may be used as electives for the undergraduate degree and minor.

Prerequisites: CMSC216 and CMSC250 with a grade of C- or better; and permission of the Computer Science department. This course provides an overview of the key concepts and algorithms of Reinforcement Learning, an area of artificial intelligence research responsible for recent achievements such as AlphaGo and robotic control. Students will implement learning algorithms for simple tasks such as mazes and pong games.

0101	James Reggia	Seats (Total: 30)
	F 2:00pm - 2:50pm	EGR 2116

CMSC389I **Special Topics in Computer Science; Disrupting Healthcare with AI**

(Perm req)

Credits: 1 Grading Method: Regular

Seminar courses that allow students to pursue new and emerging areas of Computer Science; course may be used as electives for the undergraduate degree and minor.

Prerequisites: CMSC216 and CMSC250 with a grade of C- or better; and permission of the Computer Science department. This course provides a comprehensive, practical introduction to the intersection of machine learning and different challenges in healthcare. Students will apply basic predictive modeling techniques to fields such as early detection of disease, telemedicine, and mental health. Prior knowledge of biology is not required but a basic understanding of Python and/or machine learning techniques is recommended.

0101	Max Leiserson	Seats (Total: 30)
	F 2:00pm - 2:50pm	CSI 2118

CMSC389K **Special Topics in Computer Science; Full-stack Web Development with Node.js**

(Perm req)

Credits: 1 Grading Method: Regular

Seminar courses that allow students to pursue new and emerging areas of Computer Science; course may be used as electives for the undergraduate degree and minor.

Prerequisite: Minimum grade of C- in CMSC250 and CMSC216; and permission of CMNS-Computer Science department.

0101	John Dickerson F 2:00pm - 2:50pm	Seats (Total: 30) EGR 2154

CMSC389N **Special Topics in Computer Science; Introduction to PHP and Javascript**

(Perm req)

Credits: 3 Grading Method: Regular

Seminar courses that allow students to pursue new and emerging areas of Computer Science; course may be used as electives for the undergraduate degree and minor.

Prerequisite: Minimum grade of C- in CMSC250 and CMSC216; and permission of CMNS-Computer Science department.

0101	Richard Johnson TuTh 3:30pm - 4:45pm	Seats (Total: 120) ESJ 2204

CMSC389O **Special Topics in Computer Science; The Coding Interview**

(Perm req)

Credits: 1 Grading Method: Regular

Seminar courses that allow students to pursue new and emerging areas of Computer Science; course may be used as electives for the undergraduate degree and minor.

Prerequisites: CMSC216 and CMSC250 with a grade of C- or better; and permission of the Computer Science department. Students will be provided with a comprehensive, practical introduction to technical interviews. Starting with basic topics such as Big O and String Manipulation. We will then move into more complex topics such as Bit Manipulation and Dynamic Programming. Most of the classes will be "In-Class Interviews" and take-home assignments will simulate real interview settings.

0101	Thomas Goldstein F 12:00pm - 12:50pm	Seats (Total: 30) EDU 1107
0201	Thomas Goldstein F 1:00pm - 1:50pm	Seats (Total: 30) TWS 0214
0301	Thomas Goldstein F 11:00am - 11:50am	Seats (Total: 30) EGR 2154

CMSC389Q **Special Topics in Computer Science; iOS App Development**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Seminar courses that allow students to pursue new and emerging areas of Computer Science; course may be used as electives for the undergraduate degree and minor.

Prerequisites: CMSC216 and CMSC250 with a grade of C- or better; and permission of the Computer Science department. This course explores mobile development on the iOS platform. Topics covered include using Xcode, Swift 4, developing modern user interfaces, networking, and popular libraries such as ARKit and CoreML. Access to a computer running the latest Mac OS X software is not required but is recommended.

0101	Neil Spring F 2:00pm - 2:50pm	Seats (Total: 30) CSI 3118

CMSC389R **Special Topics in Computer Science; Introduction to Ethical Hacking**

(Perm req)

Credits: 1 Grading Method: Regular

Seminar courses that allow students to pursue new and emerging areas of Computer Science; course may be used as electives for the undergraduate degree and minor.

Prerequisites: Minimum grade of C- in CMSC216; and 1 course with a minimum grade of C- from (CMSC250, ENEE150). An introduction to ethical hacking geared towards entering the competitive world of cybersecurity Capture the Flag (CTF) competitions. Applications to a career in digital forensics, penetration testing, cryptology, and secure software development.

0101	David Levin F 2:00pm - 2:50pm	Seats (Total: 30) CSI 2107
0201	David Levin F 3:00pm - 3:50pm	Seats (Total: 30) CSI 2107

CMSC389U **Special Topics in Computer Science; Introduction to Developing AR Applications with Hololens**

(Perm req)

Credits: 1 Grading Method: Regular

Seminar courses that allow students to pursue new and emerging areas of Computer Science; course may be used as electives for the undergraduate degree and minor.

Prerequisite: CMSC216 and CMSC250 with a grade of C- or better. An introduction to developing Augmented Reality applications for devices like the Microsoft Hololens using the Microsoft Mixed Reality Toolkit and the Unity 3D engine. Topics will include AR design thinking, the Unity scripting API, deploying applications to Hololens, and the technology behind AR devices. Students will explore the capabilities of AR devices through bi-weekly projects designed to give them usable, valuable skills as quickly as possible. Basic programming and Unity experience are strongly recommended.

0101	Matthias Zwicker	Seats (Total: 18)
	F 1:00pm - 1:50pm	EGR 2116

CMSC389W **Special Topics in Computer Science; Visualization through Mathematica**

(Perm req)

Credits: 1 Grading Method: Regular

Seminar courses that allow students to pursue new and emerging areas of Computer Science; course may be used as electives for the undergraduate degree and minor.

Also offered as MATH299M. Credit only granted for CMSC389W or MATH299M. Prerequisites: CMSC216 and CMSC250 with a grade of C- or better; and permission of the Computer Science department.

0101	William Goldman	Seats (Total: 20)
	F 2:00pm - 2:50pm	EGR 1104

CMSC389Y **Special Topics in Computer Science; Practical Methods For Self Driving Cars**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Seminar courses that allow students to pursue new and emerging areas of Computer Science; course may be used as electives for the undergraduate degree and minor.

0101	Larry Davis	Seats (Total: 30)
	F 11:00am - 11:50am	EGR 2116

CMSC390 **Honors Paper**

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Must be admitted to the Computer Science Honors Program.

Special study or research directed toward preparation of honors paper.

Contact department for information to register for this course.

CMSC396H **Computer Science Honors Seminar**

(Perm req) Credits: 1 Grading Method: Regular

Prerequisite: Must have admission into Computer Science Departmental Honors Program. Restriction: Permission of CMNS-Computer Science department. Credit only granted for: CMSC297 or CMSC396. Formerly: CMSC297.

Overview of computer science research activities, techniques, and tools. Diverse research areas will be covered, including systems, networks, artificial intelligence, human-computer interaction, software engineering, graphics, vision, and theory.

0101	David Levin W 2:00pm - 3:00pm	Seats (Total: 32) AVW 4172

CMSC411 **Computer Systems Architecture**

(Perm req) Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC330; or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program. Restriction: Permission of CMNS-Computer Science department. Credit only granted for: ENEE446 or CMSC411.

Input/output processors and techniques. Intra-system communication, buses, caches. Addressing and memory hierarchies. Microprogramming, parallelism, and pipelining.

0101	Michelle Hugue TuTh 2:00pm - 3:15pm	Seats (Total: 54) CSI 1122
0201	Michelle Hugue TuTh 3:30pm - 4:45pm	Seats (Total: 88) CSI 2117

CMSC412 **Operating Systems**

(Perm req) Credits: 4 Grading Method: Regular CORE: CS

Prerequisite: Minimum grade of C- in CMSC330 and CMSC351; and 1 course with a minimum grade of C- from (CMSC414, CMSC417, CMSC420, CMSC430, CMSC433, CMSC435, ENEE440, ENEE457). Restriction: Permission of CMNS-Computer Science department; or must be in one of the following programs (Computer Science (Master's); Computer Science (Doctoral)). Credit only granted for: CMSC412 or ENEE447.

A hands-on introduction to operating systems, including topics in: multiprogramming, communication and synchronization, memory management, IO subsystems, and resource scheduling polices. The laboratory component consists of constructing a small kernel, including functions for device IO, multi-tasking, and memory management.

0101	A.U. Shankar TuTh 11:00am - 12:15pm MW 12:00pm - 12:50pm	Seats (Total: 25) CSI 1122 CSI 1121	 Discussion
0102	A.U. Shankar TuTh 11:00am - 12:15pm MW 1:00pm - 1:50pm	Seats (Total: 25) CSI 1122 CSI 1121	 Discussion

CMSC414 **Computer and Network Security**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC330 and CMSC351; or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program. Restriction: Permission of CMNS-Computer Science department. Credit only granted for: CMSC414, ENEE459C, or ENEE457.

An introduction to the topic of security in the context of computer systems and networks. Identify, analyze, and solve network-related security problems in computer systems. Fundamentals of number theory, authentication, and encryption technologies, as well as the practical problems that have to be solved in order to make those technologies workable in a networked environment, particularly in the wide-area Internet environment.

0101	Michael Marsh TuTh 3:30pm - 4:45pm	Seats (Total: 230) SKN 0200	

CMSC417 **Computer Networks**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC351 and CMSC330; and permission of CMNS-Computer Science department. Or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program.

Computer networks and architectures. The OSI model including discussion and examples of various network layers. A general introduction to existing network protocols. Communication protocol specification, analysis, and testing.

0101	Michael Marsh TuTh 12:30pm - 1:45pm	Seats (Total: 88) CSI 3117	
0201	Ashok Agrawala TuTh 9:30am - 10:45am	Seats (Total: 88) CSI 3117	

CMSC420 **Data Structures**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC351 and CMSC330; and permission of CMNS-Computer Science department. Or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program.

Description, properties, and storage allocation functions of data structures including balanced binary trees, B-Trees, hash tables, skiplists, tries, KD-Trees and Quadtrees. Algorithms for manipulating structures. Applications from areas such as String Processing, Computer Graphics, Information Retrieval, Computer Networks, Computer Vision, and Operating Systems.

0101	Michelle Hugue MW 3:30pm - 4:45pm	Seats (Total: 85) CSI 2117
0201	Jason Filippou TuTh 3:30pm - 4:45pm	Seats (Total: 200) ESJ 0224
0301	Hanan Samet TuTh 9:30am - 10:45am	Seats (Total: 50) CSI 1121

CMSC421 **Introduction to Artificial Intelligence**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC351 and CMSC330; and permission of CMNS-Computer Science department. Or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program.

Introduces a range of ideas and methods in AI, varying semester to semester but chosen largely from: automated heuristic search, planning, games, knowledge representation, logical and statistical inference, learning, natural language processing, vision, robotics, cognitive modeling, and intelligent agents. Programming projects will help students obtain a hands-on feel for various topics.

0101	Dana Nau TuTh 3:30pm - 4:45pm	Seats (Total: 85) CSI 3117

CMSC422 **Introduction to Machine Learning**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC320, CMSC330, and CMSC351; and 1 course with a minimum grade of C- from (MATH240, MATH461); and permission of CMNS-Computer Science department.

Machine Learning studies representations and algorithms that allow machines to improve their performance on a task from experience. This is a broad overview of existing methods for machine learning and an introduction to adaptive systems in general. Emphasis is given to practical aspects of machine learning and data mining.

0201	William Regli	Seats (Total: 100)
	MW 3:30pm - 4:45pm	ESJ 2204

CMSC423 **Bioinformatic Algorithms, Databases, and Tools**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC351 and CMSC330; and permission of CMNS-Computer Science department. Or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program.

An introduction to the main algorithms, databases, and tools used in bioinformatics. Topics may include assembly and analysis of genome sequences, reconstructing evolutionary histories, predicting protein structure, and clustering of biological data. Use of scripting languages to perform analysis tasks on biological data. No prior knowledge of biology is assumed.

0101	Mihai Pop	Seats (Total: 90)
	TuTh 11:00am - 12:15pm	ESJ 1202

CMSC424 **Database Design**

(Perm req)

Credits: 3 Grading Method: Regular CORE: CS

Prerequisite: Minimum grade of C- in CMSC351 and CMSC330; and permission of CMNS-Computer Science department. Or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program.

Students are introduced to database systems and motivates the database approach as a mechanism for modeling the real world. An in-depth coverage of the relational model, logical database design, query languages, and other database concepts including query optimization, concurrency control; transaction management, and log based crash recovery. Distributed and Web database architectures are also discussed.

0101	Nicholas Roussopoulos	Seats (Total: 200)
	MW 3:30pm - 4:45pm	ESJ 0224

CMSC425 **Game Programming**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC420.

An introduction to the principles and practice of computer game programming and design. This includes an introduction to game hardware and systems, the principles of game design, object and terrain modeling, game physics, artificial intelligence for games, networking for games, rendering and animation, and aural rendering. Course topics are reinforced through the design and implementation of a working computer game.

0101	David Mount	Seats (Total: 85)
	TuTh 9:30am - 10:45am	CSI 2117

CMSC426 **Computer Vision**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC330 and CMSC351; or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program. Restriction: Permission of CMNS-Computer Science department.

An introduction to basic concepts and techniques in computervision. This includes low-level operations such as image filtering and edge detection, 3D reconstruction of scenes using stereo and structure from motion, and object detection, recognition and classification.

0101	John Aloimonos	Seats (Total: 70)
	TuTh 11:00am - 12:15pm	CSI 3117
0201	Carlos Castillo	Seats (Total: 40)
	TuTh 12:30pm - 1:45pm	CSI 2107

CMSC427 **Computer Graphics**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: MATH240; and minimum grade of C- in CMSC420; and permission of CMNS-Computer Science department. Or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program.

An introduction to 3D computer graphics, focusing on the underlying building blocks and algorithms for applications such as 3D computer games, and augmented and virtual reality (AR/VR). Covers the basics of 3D image generation and 3D modeling, with an emphasis on interactive applications. Discusses the representation of 3D geometry, 3D transformations, projections, rasterization, basics of color spaces, texturing and lighting models, as well as programming of modern Graphics Processing Units (GPUs). Includes programming projects where students build their own 3D rendering engine step-by-step.

0101	Matthias Zwicker	Seats (Total: 50)
	TuTh 12:30pm - 1:45pm	CSI 1121

CMSC430 **Introduction to Compilers**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC330 and CMSC351; and permission of CMNS-Computer Science department. Or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program.

Topics include lexical analysis, parsing, intermediate representations, program analysis, optimization, and code generation.

0201	Nick Petroni	Seats (Total: 54)
	TuTh 9:30am - 10:45am	CSI 1122

CMSC433 **Programming Language Technologies and Paradigms**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC330; or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program. Restriction: Permission of CMNS-Computer Science department.

Programming language technologies (e.g., object-oriented programming), their implementations and use in software design and implementation.

0101	Anwar Mamat	Seats (Total: 170)
	TuTh 11:00am - 12:15pm	ESJ 0224

CMSC434 **Introduction to Human-Computer Interaction**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC330 and CMSC351; and permission of CMNS-Computer Science department. Or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program.

Assess usability by quantitative and qualitative methods. Conduct task analyses, usability tests, expert reviews, and continuing assessments of working products by interviews, surveys, and logging. Apply design processes and guidelines to develop professional quality user interfaces. Build low-fidelity paper mockups, and a high-fidelity prototype using contemporary tools such as graphic editors and a graphical programming environment (eg: Visual Basic, Java).

0101	Vibha Sazawal TuTh 11:00am - 12:15pm	Seats (Total: 88) CSI 2117
0201	Evan Golub MW 2:00pm - 3:15pm	Seats (Total: 44) AJC 2121

CMSC435 **Software Engineering**

(Perm req)

Credits: 3 Grading Method: Regular CORE: CS

Prerequisite: 1 course with a minimum grade of C- from (CMSC412, CMSC417, CMSC420, CMSC430, CMSC433); and permission of CMNS-Computer Science department. Or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program.

State-of-the-art techniques in software design and development. Laboratory experience in applying the techniques covered. Structured design, structured programming, top-down design and development, segmentation and modularization techniques, iterative enhancement, design and code inspection techniques, correctness, and chief-programmer teams. The development of a large software project.

0101	James Purtilo TuTh 2:00pm - 3:15pm	Seats (Total: 48) CSI 1121

CMSC436 **Programming Handheld Systems**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC330 and CMSC351; or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program. Restriction: Permission of CMNS-Computer Science department.

Fundamental principles and concepts that underlie the programming of handheld systems, such as mobile phones, personal digital assistants, and tablet computers. Particular emphasis will be placed on concepts such as limited display size, power, memory and CPU speed; and new input modalities, where handheld systems differ substantially from non-handheld systems, and thus require special programming tools and approaches. Students will apply these concepts and principles in the context of an existing handset programming platform.

0101	Adam Porter TuTh 2:00pm - 3:15pm	Seats (Total: 145) CSI 1115

CMSC451 **Design and Analysis of Computer Algorithms**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC351; and permission of CMNS-Computer Science department. Or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program.

Fundamental techniques for designing efficient computer algorithms, proving their correctness, and analyzing their complexity. General topics include graph algorithms, basic algorithm design paradigms (such as greedy algorithms, divide-and-conquer, and dynamic programming), network flows, NP-completeness, and other selected topics in algorithms.

0201	Andrew Childs TuTh 2:00pm - 3:15pm	Seats (Total: 145) ESJ 1224
0301	Aravind Srinivasan TuTh 2:00pm - 3:15pm	Seats (Total: 50) CSI 2117

CMSC456 **Cryptology**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: (CMSC106, CMSC131, or ENEE150; or equivalent programming experience); and (2 courses from (CMSC330, CMSC351, ENEE324, or ENEE380); or any one of these courses and a 400-level MATH course, or two 400-level MATH courses). Or permission of instructor. Also offered as: MATH456, ENEE456. Credit only granted for: MATH456, CMSC456, or ENEE456.

The theory, application, and implementation of mathematical techniques used to secure modern communications. Topics include symmetric and public-key encryption, message integrity, hash functions, block-cipher design and analysis, number theory, and digital signatures.

0101	Jonathan Rosenberg MWF 1:00pm - 1:50pm	Seats (Total: 32) MTH B0421
0201	William Gasarch MW 2:00pm - 3:15pm	Seats (Total: 88) CSI 2117

CMSC460 **Computational Methods**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: 1 course with a minimum grade of C- from (MATH240, MATH341, MATH461); and 1 course with a minimum grade of C- from (MATH241, MATH340); and 1 course with a minimum grade of C- from (CMSC106, CMSC131); and minimum grade of C- in MATH246. Also offered as: AMSC460. Credit only granted for: AMSC460, AMSC466, CMSC460, or CMSC466.

Basic computational methods for interpolation, least squares, approximation, numerical quadrature, numerical solution of polynomial and transcendental equations, systems of linear equations and initial value problems for ordinary differential equations. Emphasis on methods and their computational properties rather than their analytic aspects. Intended primarily for students in the physical and engineering sciences.

0101	Akwum Onwunta MWF 2:00pm - 2:50pm	Seats (Total: 25) MTH 0405
0201	Juan Pablo Borthagaray TuTh 11:00am - 12:15pm	Seats (Total: 31) AJC 2121
0301	Tobias von Petersdorff TuTh 3:30pm - 4:45pm	Seats (Total: 28) MTH 0411
0401	Howard Elman TuTh 2:00pm - 3:15pm	Seats (Total: 40) CSI 3120

CMSC466 **Introduction to Numerical Analysis I**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: 1 course with a minimum grade of C- from (MATH240, MATH341, MATH461); and 1 course with a minimum grade of C- from (MATH241, MATH340); and 1 course with a minimum grade of C- from (CMSC106, CMSC131); and minimum grade of C- in MATH410. Also offered as: AMSC466. Credit only granted for: AMSC460, AMSC466, CMSC460, or CMSC466.

Floating point computations, direct methods for linear systems, interpolation, solution of nonlinear equations.

0101	Eitan Tadmor TuTh 2:00pm - 3:15pm	Seats (Total: 32) CSI 4122

CMSC470 **Introduction to Natural Language Processing**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC320, CMSC330, and CMSC351; and 1 course with a minimum grade of C- from (MATH240, MATH461). Restriction: Permission of CMNS-Computer Science department.

Introduction to fundamental techniques for automatically processing and generating natural language with computers. Machine learning techniques, models, and algorithms that enable computers to deal with the ambiguity and implicit structure of natural language. Application of these techniques in a series of assignments designed to address a core application such as question answering or machine translation.

0201	Marine Carpuat	Seats (Total: 22)
	TuTh 2:00pm - 3:15pm	AVW 3258

CMSC475 **Combinatorics and Graph Theory**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: MATH240 and MATH241; and permission of CMNS-Computer Science department. Or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program. Also offered as: MATH475.

General enumeration methods, difference equations, generating functions. Elements of graph theory, matrix representations of graphs, applications of graph theory to transport networks, matching theory and graphical algorithms.

Credit only granted for MATH475 or CMSC475.

0101	Wiseley Wong	Seats (Total: 30)
	MWF 9:00am - 9:50am	MTH 0307

CMSC498A **Selected Topics in Computer Science**

(Perm req)

Credits: 1-3 Grading Method: Regular

An individualized course designed to allow a student or students to pursue a selected topic not taught as a part of the regular course offerings under the supervision of a Computer Science faculty member. In addition, courses dealing with topics of special interest and/or new emerging areas of computer science will be offered with this number. Selected topics courses will be structured very much like a regular course with homework, project and exams. Credit according to work completed

Contact department for information to register for this course.

CMSC498V **Selected Topics in Computer Science; Advanced Topics in Machine Learning**

(Perm req)

Credits: 3 Grading Method: Regular

An individualized course designed to allow a student or students to pursue a selected topic not taught as a part of the regular course offerings under the supervision of a Computer Science faculty member. In addition, courses dealing with topics of special interest and/or new emerging areas of computer science will be offered with this number. Selected topics courses will be structured very much like a regular course with homework, project and exams. Credit according to work completed

Prerequisites: Minimum grade of C- in CMSC422 or CMSC498M; permission of CMNS-Computer Science department and instructor.

0101	Furong Huang	Seats (Total: 30)
	TuTh 3:30pm - 4:45pm	CSI 1121

CMSC498X **Selected Topics in Computer Science; Introduction to Wireless Communications and Software-Defined Radio**

(Perm req)

Credits: 3 Grading Method: Regular

An individualized course designed to allow a student or students to pursue a selected topic not taught as a part of the regular course offerings under the supervision of a Computer Science faculty member. In addition, courses dealing with topics of special interest and/or new emerging areas of computer science will be offered with this number. Selected topics courses will be structured very much like a regular course with homework, project and exams. Credit according to work completed

Prerequisite: One course with a minimum grade of C- from (CMSC411, CMSC412, CMSC412, CMSC414, CMSC417, CMSC433, CMSC435, CMSC456); and must not be a double major in Electrical Engineering.

0101	Marc Lichtman	Seats (Total: 30)
	TuTh 3:30pm - 4:45pm	CSI 3118

CMSC499A **Independent Undergraduate Research**

(Perm req)

Credits: 1-3 Grading Method: Regular

Students are provided with an opportunity to participate in a computer science research project under the guidance of a faculty advisor. Format varies. Students and supervising faculty member will agree to a research plan which must be approved by the department. As part of each research plan, students should produce a final paper delineating their contribution to the field.

Contact department for information to register for this course.

CMSC634 **Empirical Research Methods for Computer Science**

Credits: 3 Grading Method: Regular, Audit

Recommended: An introductory statistics class. Restriction: Must be in Computer Science (Master's) program; or must be in Computer Science (Doctoral) program; or permission of instructor. Credit only granted for: CMSC838G (Fall2005) or CMSC634.

A graduate-level introductory course on empirical reseach methods for computer scientists. Experimental techniques for evaluating software systems and processes, human performance using interfaces, programming environments, and software engineering methods. Introduction to constructs and methods of measurements, qualitative and quantitative design, quasi-experimental and non-experimental design, baseline design, and statistical analysis.

0101	Michelle Mazurek	Seats (Total: 40)
	TuTh 9:30am - 10:45am	CSI 2120

CMSC641 **Principles of Data Science**

Credits: 3 Grading Method: Regular

Restriction: Must be in the Data Science Post-Baccalaureate Certificate of Professional Studies program; and permission of CMNS-Computer Science department.

An introduction to the data science pipeline, i.e., the end-to-end process of going from unstructured, messy data to knowledge and actionable insights. Provides a broad overview of what data science means and systems and tools commonly used for data science, and illustrates the principles of data science through several case studies.

PCD1	John Dickerson	Seats (Total: 40)
	W 7:00pm - 9:30pm	CSI 3120
	Must be in Data Science Certificate program. For permission to enroll, contact oes@umd.edu.	

CMSC643 **Machine Learning and Data Mining**

Credits: 3 Grading Method: Regular

Restriction: Must be in the Data Science Post-Baccalaureate Certificate of Professional Studies program; and permission of CMNS-Computer Science department.

Provides a broad overview of key machine learning and data mining algorithms, and how to apply those to very large datasets. Topics covered include decision trees, linear models for classification and regression, support vector machines, neural networks and deep learning, online learning, recommendation systems, clustering and dimensionality reduction, and systems for large-scale machine learning.

PCD1	Hector Corrada Bravo	Seats (Total: 38)
	Tu 7:00pm - 9:30pm	CSI 2118
	Must be in Data Science Certificate program. For permission to enroll, contact oes@umd.edu.	

CMSC657 **Introduction to Quantum Information Processing**

Credits: 3 Grading Method: Regular

Prerequisite: Familiarity with complex numbers and basic concepts in linear algebra (e.g., eigenvalues, eigenvectors, Hermitian and unitary matrices) is required. Credit only granted for: CMSC657 or CMSC858K. Formerly: CMSC858K. Additional information: Previous background in quantum mechanics or theory of computation is not required.

An introduction to the field of quantum information processing. Students will be prepared to pursue further study in quantum computing, quantum information theory, and related areas.

0101	Xiaodi Wu	Seats (Total: 38)
	TuTh 11:00am - 12:15pm	AJC 2132

CMSC660 **Scientific Computing I**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have knowledge of C or Fortran. And CMSC466, AMSC466, AMSC460, or CMSC460; or (must have knowledge of basic numerical analysis (linear equations, nonlinear equations, integration, interpolation); and permission of instructor). Also offered as: AMSC660. Credit only granted for: AMSC660 or CMSC660.

Monte Carlo simulation, numerical linear algebra, nonlinear systems and continuation method, optimization, ordinary differential equations. Fundamental techniques in scientific computation with an introduction to the theory and software for each topic.

0101	Lise-Marie Imbert-Gerard	Seats (Total: 30)
	TuTh 9:30am - 10:45am	MTH B0421

CMSC663 **Advanced Scientific Computing I**

Credits: 3 Grading Method: Regular

Also offered as: AMSC663. Credit only granted for: AMSC663 or CMSC663.

In the sequence CMSC663, CMSC664 students work on a year-long individual project to develop software for a scientific task in a high perfomance computing environment. Lectures will be given on available computational environments, code development, implementation of parallel algorithms.

0101	Thomas Goldstein TuTh 2:00pm - 3:15pm	Seats (Total: 20) MTH B0425

CMSC666 **Numerical Analysis I**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: CMSC466 or AMSC466; and MATH410. Also offered as: AMSC666. Credit only granted for: AMSC666 or CMSC666.

Interpolation and approximation, numerical integration, solution algorithms for nonlinear systems of equations, numerical optimization.

Click here for more course information.

0101	Tobias von Petersdorff TuTh 12:30pm - 1:45pm	Seats (Total: 25) MTH 0405

CMSC714 **High Performance Computing Systems**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: CMSC411 and CMSC412; or permission of instructor.

Slected topics in high-performance systems, including contemporary architectures, interconnection topologies, shared memory and message-passing systems, multi-threaded kernels, latency avoidance and hiding techniques, methods for data and workload partitioning performance profiling, debugging.

0101	Alan Sussman TuTh 2:00pm - 3:15pm	Seats (Total: 40) CSI 2120

CMSC723 **Computational Linguistics I**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: CMSC421; or students who have taken courses with comparable content may contact the department; or permission of instructor. Also offered as: LING723, INST735. Credit only granted for: CMSC723, LING723, or INST735. Additional information: May only receive PhD Comp. credit for CMSC723 or CMSC823, not both.

Fundamental methods in natural language processing. Topics include: finite-state methods, context-free and extended context-free models of syntax; parsing and semantics interpretation; n-gram and Hidden Markov models, part-of-speech tagging; natural language applications such as machine translation, automatic summarization, and question answering.

0101	Jordan Boyd-Graber Ying	Seats (Total: 74)
	MW 3:30pm - 4:45pm	CSI 3117

CMSC726 **Machine Learning**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: CMSC421; or students who have taken courses with comparable content may contact the department; or permission of instructor.

An introduction to modern statistical data analysis using machine learning techniques. The course quickly surveys elementary statistical models (decision trees, nearest neighbors and linear regression) and moves on to more complex algorithms such as support vector machines, boosting, neural networks, structured prediction, apprenticeship learning, online learning, bandits, recommender systems and reinforcement learning. Throughout an emphasis is placed on mathematical rigor.

Prerequisite: CMSC421; or students who have taken courses with comparable content may contact the department; or permission of instructor.

0101	Soheil Feizi	Seats (Total: 45)
	TuTh 11:00am - 12:15pm	CSI 2107

CMSC727 **Neural Modeling**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: CMSC421; or students who have taken courses with comparable content may contact the department; or permission of instructor.

Fundamental methods of neural modeling. Surveys historical development and recent research results from both the computational and dynamical systems perspective. Logical neurons, perceptrons, linear adaptive networks, attractor neural networks, competitive activation methods, error back-propagation, self-organizing maps, and related topics. Applications in artificial intelligence, cognitive science, and neuroscience.

0101	James Reggia	Seats (Total: 40)
	TuTh 11:00am - 12:15pm	CSI 2120

CMSC798 **Graduate Seminar in Computer Science**

(Perm req)

Credits: 1-3 Grading Method: Regular

Contact department for information to register for this course.

CMSC798E **Graduate Seminar in Computer Science**

Credits: 1 Grading Method: Regular

0101	Hector Corrada Bravo	Seats (Total: 40)
	F 11:00am - 12:50pm	CSI 2117

CMSC799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

CMSC818E **Advanced Topics in Computer Systems; Distributed and Cloud-Based Storage Systems**

Credits: 3 Grading Method: Regular, Audit

Advanced topics selected by the faculty from the literature of computer systems to suit the interest and background of students.

0101	Peter Keleher	Seats (Total: 25)
	MW 2:00pm - 3:15pm	AVW 3258

CMSC818O **Advanced Topics in Computer Systems; Computer and Network Security**

Credits: 3 Grading Method: Regular, Audit

Advanced topics selected by the faculty from the literature of computer systems to suit the interest and background of students.

0101	David Levin	Seats (Total: 25)
	TuTh 2:00pm - 3:15pm	CSI 2107

CMSC828C **Advanced Topics in Information Processing**

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics selected by the faculty from the literature of information processing to suit the interest and background of students.

0101	Behtash Babadi	Seats (Total: 65)
	TuTh 3:30pm - 4:45pm	EGR 1202

CMSC828D **Advanced Topics in Information Processing; Interactive Data Analytics**

Credits: 3 Grading Method: Regular, Audit

Advanced topics selected by the faculty from the literature of information processing to suit the interest and background of students.

0201	Leilani Battle	Seats (Total: 32)
	TuTh 3:30pm - 4:45pm	CSI 2118

CMSC828G **Advanced Topics in Information Processing**

Credits: 3 Grading Method: Regular, Audit

Advanced topics selected by the faculty from the literature of information processing to suit the interest and background of students.

Also offered as ENEE731. Credit only granted for CMSC828G or ENEE731.

0101	Ramalingam Chellappa	Seats (Total: 30)
	MW 11:00am - 12:15pm	EGR 1104

CMSC828I **Advanced Topics in Information Processing; Advanced Techniques in Visual Learning and Recognition**

Credits: 3 Grading Method: Regular, Audit

Advanced topics selected by the faculty from the literature of information processing to suit the interest and background of students.

Prerequisite: CMSC422, CMSC426, or equivalent; or permission of instructor.

0101	Abhinav Shrivastava	Seats (Total: 40)
	TuTh 3:30pm - 4:45pm	CSI 2120
	Contact instructor or department for details.	

CMSC828L **Advanced Topics in Information Processing; Deep Learning**

Credits: 3

Grading Method: Regular,
Audit

Advanced topics selected by the faculty from the literature of information processing to suit the interest and background of students.

0101	David Jacobs	Seats (Total: 75)
	TuTh 12:30pm - 1:45pm	CSI 2117

CMSC828N **Advanced Topics in Information Processing; Database System Architecture and Implementation**

Credits: 3

Grading Method: Regular,
Audit

Advanced topics selected by the faculty from the literature of information processing to suit the interest and background of students.

Prerequisite: CMSC424; or students who have taken courses with comparable content may contact the department; or permission of instructor.

0101	Daniel Abadi	Seats (Total: 20)
	TuTh 2:00pm - 3:15pm	CSI 2118

CMSC828O **Advanced Topics in Information Processing; Computational and Mathematical Analysis of Biological Networks across Scales**

Credits: 3

Grading Method: Regular,
Audit

Advanced topics selected by the faculty from the literature of information processing to suit the interest and background of students.

0101	Hector Corrada Bravo	Seats (Total: 25)
	TuTh 9:30am - 10:45am	CSI 3118

CMSC828P **Advanced Topics in Information Processing; Algorithms and Machine Learning for Analyzing Mutations in Cancer**

Credits: 3

Grading Method: Regular,
Audit

Advanced topics selected by the faculty from the literature of information processing to suit the interest and background of students.

0101	Max Leiserson	Seats (Total: 30)
	TuTh 11:00am - 12:15pm	CSI 3118

CMSC838X **Advanced Topics in Programming Languages; Personal Health Informatics & Visualization**

Credits: 3 Grading Method: Regular, Audit

Advanced topics selected by faculty from the literature of programming languages to suit the interest and background of students.

Also offered as CMSC838X. Credit only granted for INST682 or CMSC838X.

0101	Eun Kyoung Choe	Seats (Total: 30)
	Tu 2:00pm - 4:45pm	JMP 1109

CMSC858E **Advanced Topics in Theory of Computing; Approximation Algorithms**

Credits: 3 Grading Method: Regular, Audit

Advanced topics selected by the faculty from the literature of theory of computing to suit the interest and background of students.

0201	Samir Khuller	Seats (Total: 38)
	TuTh 12:30pm - 1:45pm	CSI 2118

CMSC898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Prerequisite: permission of instructor. Advanced topics selected by the faculty from the literature of applications of computer science to suit the interest and background of students. May be repeated for credit.

Contact department for information to register for this course.

CMSC899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

COMM Communication Fall 2018

COMM107 **Oral Communication: Principles and Practices**

Credits: 3 | Grading Method: Regular, Pass-Fail | General Education: FSOC

Credit only granted for: COMM107, COMM200, ENES143, INAG110, JOUR130 or THET285.

A study of and practice in oral communication, including principles of interviewing, group discussion, listening, informative briefings, and persuasive speeches.

Attendance on the first day of classes is mandatory.

0101	Junhan Chen MWF 8:00am - 8:50am	Seats (Total: 19) SKN 0104
0201	Yumin Yan MWF 8:00am - 8:50am	Seats (Total: 19) SKN 1112
0301	Naette Lee MWF 8:00am - 8:50am	Seats (Total: 19) SKN 1115
0401	Jeannette Viens MWF 8:00am - 8:50am	Seats (Total: 19) PLS 1176
0501	Shawna Dias MWF 8:00am - 8:50am	Seats (Total: 19) PLS 1180
1101	Junhan Chen MWF 9:00am - 9:50am	Seats (Total: 19) SKN 0104
1201	Yumin Yan MWF 9:00am - 9:50am	Seats (Total: 19) SKN 1112
1301	Sarah Vick MWF 9:00am - 9:50am	Seats (Total: 19) SKN 1115
1401	Jeannette Viens MWF 9:00am - 9:50am	Seats (Total: 19) PLS 1176
1501	Shawna Dias MWF 9:00am - 9:50am	Seats (Total: 19) PLS 1180
2301	Sumin Fang MWF 10:00am - 10:50am	Seats (Total: 19) SKN 0104

2401	Shoaa Almalki MWF 10:00am - 10:50am	Seats (Total: 19) SKN 1112
2501	Sarah Vick MWF 10:00am - 10:50am	Seats (Total: 19) SKN 1115
2601	Jim Golden MWF 10:00am - 10:50am	Seats (Total: 19) ARC 1123
2701	Anne Smithson MWF 10:00am - 10:50am	Seats (Total: 19) PLS 1180
3001	Daniel Foster MWF 10:00am - 10:50am	Seats (Total: 19) ASY 3217
3301	Sumin Fang MWF 11:00am - 11:50am	Seats (Total: 19) SKN 0104
3401	Shoaa Almalki MWF 11:00am - 11:50am	Seats (Total: 19) SKN 1112
3501	Matthew Salzano MWF 11:00am - 11:50am	Seats (Total: 19) SKN 1115
3601	Jim Golden MWF 11:00am - 11:50am	Seats (Total: 19) ARC 1123
3701	Anne Smithson MWF 11:00am - 11:50am	Seats (Total: 19) PLS 1180
4001	Daniel Foster MWF 11:00am - 11:50am	Seats (Total: 19) ASY 3217
4301	Daniel Foster MWF 1:00pm - 1:50pm	Seats (Total: 19) SKN 1112
4401	Jim Golden MWF 1:00pm - 1:50pm	Seats (Total: 19) PLS 1176
4501	Anne Smithson MWF 1:00pm - 1:50pm	Seats (Total: 19) WDS 1127

4901	Alex Thomas MWF 2:00pm - 2:50pm	Seats (Total: 19) SKN 1112
5001	Jim Golden MWF 2:00pm - 2:50pm	Seats (Total: 19) PLS 1176
5101	Matthew Salzano MWF 2:00pm - 2:50pm	Seats (Total: 19) WDS 1127
5201	Daniel Foster MWF 2:00pm - 2:50pm	Seats (Total: 19) KEY 0124
5601	Brooke Fowler MW 2:00pm - 3:15pm	Seats (Total: 19) JMZ 2120
5701	Soyoung Bae MW 2:00pm - 3:15pm	Seats (Total: 19) PLS 1180
5801	Hagar Attia MW 2:00pm - 3:15pm	Seats (Total: 19) PLS 1184
5901	Janna Soeder MW 2:00pm - 3:15pm	Seats (Total: 19) JMZ 1103
6001	Kimberley Hannah-Prater MW 2:00pm - 3:15pm	Seats (Total: 19) JMZ 1117
6101	Brooke Fowler MW 3:30pm - 4:45pm	Seats (Total: 19) JMZ 2125
6201	Alyson Farzad MW 3:30pm - 4:45pm	Seats (Total: 19) PLS 1180
	This section is designed for students committed to community engagement and social change. Guided by a model of service learning, students will work alongside the Do Good Institute to enact change in their communities. To enroll, email Alyson Farzad at abfarzad@umd.edu to request permission.	
6301	Meridith Styer MW 3:30pm - 4:45pm	Seats (Total: 19) PLS 1184

6401	Janna Soeder MW 3:30pm - 4:45pm	Seats (Total: 19) JMZ 1103
6501	Hagar Attia MW 3:30pm - 4:45pm	Seats (Total: 19) KEY 0119
6601	Soyoung Bae MW 5:00pm - 6:15pm	Seats (Total: 19) SKN 0104
6701	Julie Gowin MW 5:00pm - 6:15pm	Seats (Total: 19) SKN 1112
6801	Tori Mends-Cole MW 5:00pm - 6:15pm	Seats (Total: 19) SKN 1115
6901	Hagar Attia MW 5:00pm - 6:15pm	Seats (Total: 19) PLS 1176
7001	Alyson Farzad MW 5:00pm - 6:15pm	Seats (Total: 19) HBK 0108
7101	Mark Fernando MW 6:30pm - 7:45pm	Seats (Total: 19) SKN 0104
7301	Devin Scott TuTh 8:00am - 9:15am	Seats (Total: 19) PLS 1176
7401	Janna Soeder TuTh 8:00am - 9:15am	Seats (Total: 19) PLS 1180
7501	Karen Lamb TuTh 8:00am - 9:15am	Seats (Total: 19) PLS 1184
7601	Raphael Mazzone TuTh 8:00am - 9:15am	Seats (Total: 19) PLS 1164
8101	Devin Scott TuTh 9:30am - 10:45am	Seats (Total: 19) PLS 1176
8201	David Payne TuTh 9:30am - 10:45am	Seats (Total: 19) PLS 1180

8301	Allison Chatham TuTh 9:30am - 10:45am *Instructor permission required.*	Seats (Total: 19) PLS 1184
8401	Sabeen Sheikh TuTh 9:30am - 10:45am	Seats (Total: 19) PLS 1164
8501	Kisha Dasent TuTh 9:30am - 10:45am	Seats (Total: 19) WDS 1131
8601	Tamanika Ferguson TuTh 9:30am - 10:45am	Seats (Total: 19) PLS 1162
8901	Melissa Lucas TuTh 11:00am - 12:15pm *This section is designed for current or prospective Business Majors. To enroll, email Melissa Lucas at malucas@umd.edu to request permission.*	Seats (Total: 19) PLS 1176
9001	Neha Kamran, Yiwen Dai TuTh 11:00am - 12:15pm	Seats (Total: 19) PLS 1180
9101	Karen Lamb TuTh 11:00am - 12:15pm	Seats (Total: 19) ARC 1123
9201	Sabeen Sheikh TuTh 11:00am - 12:15pm	Seats (Total: 19) SKN 1115
9301	Tamanika Ferguson TuTh 11:00am - 12:15pm	Seats (Total: 19) PLS 1113
9401	Jose Gomez Garcia TuTh 11:00am - 12:15pm	Seats (Total: 19) JMZ 0118
9501	Kisha Dasent TuTh 11:00am - 12:15pm	Seats (Total: 19) JMZ 1103
9601	Christine Schaaf TuTh 12:30pm - 1:45pm *This section is designed for current or prospective Business Majors. To enroll, email Melissa Lucas at malucas@umd.edu to request permission.*	Seats (Total: 19) PLS 1176

9701	Yiwen Dai, Neha Kamran TuTh 12:30pm - 1:45pm	Seats (Total: 19) PLS 1180
9801	Karen Lamb TuTh 12:30pm - 1:45pm	Seats (Total: 19) ARC 1123
9901	Jade Olson TuTh 12:30pm - 1:45pm	Seats (Total: 19) WDS 0104
9902	Rose Piskapas TuTh 12:30pm - 1:45pm	Seats (Total: 19) PLS 1164
9903	Skye De Saint Felix TuTh 12:30pm - 1:45pm *This section of COMM 107 explores the fundamentals of oral communication within the context of community engagement. Students will apply course content to community-based projects.*	Seats (Total: 19) JMZ 0118
9904	Kisha Dasent TuTh 12:30pm - 1:45pm	Seats (Total: 19) JMZ 1103
9905	Allison Chatham TuTh 2:00pm - 3:15pm	Seats (Total: 19) WDS 0104
9906	Rose Piskapas TuTh 2:00pm - 3:15pm	Seats (Total: 19) PLS 1180
9907	Cassondra Pope TuTh 2:00pm - 3:15pm *This section is designed for current or prospective STEM students. To enroll, email Cassondra Pope at cpope@umd.edu to request permission.*	Seats (Total: 19) PLS 1184
9908	L Gordon TuTh 2:00pm - 3:15pm	Seats (Total: 19) WDS 1131
9909	Tamanika Ferguson TuTh 2:00pm - 3:15pm	Seats (Total: 19) SQH 1111
9910	Christopher Swift TuTh 2:00pm - 3:15pm	Seats (Total: 19) JMZ 3203

9911	Allison Chatham TuTh 3:30pm - 4:45pm	Seats (Total: 19) SKN 0104
9912	Kisha Dasent TuTh 3:30pm - 4:45pm	Seats (Total: 19) PLS 1180
9913	Cassondra Pope TuTh 3:30pm - 4:45pm *This section is designed for current or prospective STEM students. To enroll, email Cassondra Pope at cpope@umd.edu to request permission.*	Seats (Total: 19) PLS 1184
9914	L Gordon TuTh 3:30pm - 4:45pm	Seats (Total: 19) WDS 1131
9915	Karen Lamb TuTh 3:30pm - 4:45pm	Seats (Total: 19) ARC 1125
9916	Ashley Lewis TuTh 3:30pm - 4:45pm	Seats (Total: 19) JMZ 3203
9917	Christopher Swift TuTh 5:00pm - 6:15pm	Seats (Total: 19) PLS 1164
9918	Jim Golden TuTh 5:00pm - 6:15pm	Seats (Total: 19) PLS 1180
9920	Jose Gomez Garcia TuTh 5:00pm - 6:15pm	Seats (Total: 19) ARC 1123
9923	L Gordon TuTh 6:30pm - 7:45pm	Seats (Total: 19) PLS 1164
9924	Rose Piskapas TuTh 6:30pm - 7:45pm	Seats (Total: 19) PLS 1180
9926	Mark Fernando MW 5:00pm - 6:15pm	Seats (Total: 19) KEY 0119
FC01	Gerry Strumpf MW 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) JMZ 3203

FC02	Raphael Mazzone TuTh 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) HBK 0108
FC03	Sue Sherburne TuTh 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) SKN 1112
FC04	Thomas McCloskey MW 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) ASY 3217
FC05	David Payne MW 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) WDS 1131
FC06	Paula Nadler MW 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) WDS 1130
FC07	Tori Mends-Cole MW 7:30pm - 8:45pm *Restricted to students in Freshmen Connection*	Seats (Total: 19) KEY 0124
FC08	Cassondra Pope TuTh 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) WDS 1131
FC09	Jim Golden TuTh 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) WDS 1130
FC10	Meridith Styer MW 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) WDS 1130

COMM200 **Critical Thinking and Speaking**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: HO	General Education: FSOC

Credit only granted for: COMM107, COMM200, ENES143, INAG110, JOUR130, OR THET285.

Theory and practice of persuasive discourse analysis and composition. Research techniques, logical and rhetorical conceptions of argument, and technical principles for persuading in public venues.

Attendance on the first day of classes is mandatory.

0101	Christopher Swift TuTh 12:30pm - 1:45pm	Seats (Total: 19) PLS 1162	
0201	Randall Fowler TuTh 8:00am - 9:15am	Seats (Total: 19) SKN 0104	
0301	Christopher Swift TuTh 9:30am - 10:45am	Seats (Total: 19) HBK 1112	
0401	Randall Fowler TuTh 9:30am - 10:45am	Seats (Total: 19) SKN 0104	

COMM201 **Introduction to Public Relations**

Credits: 3 Grading Method: Regular

Basic concepts and principles of public relations. Roles in organizations and society; history; skills and practices of public relations; theories and models of effective and ethical public relations.

Restricted to COMM majors (1506A) only.

0101	Brooke Liu MW 2:00pm - 2:50pm F 1:00pm - 1:50pm	Seats (Total: 20) SKN 0200 PLS 1180	Discussion
0102	Brooke Liu MW 2:00pm - 2:50pm F 1:00pm - 1:50pm	Seats (Total: 20) SKN 0200 WDS 1130	Discussion
0103	Brooke Liu MW 2:00pm - 2:50pm F 2:00pm - 2:50pm	Seats (Total: 20) SKN 0200 PLS 1180	Discussion
0104	Brooke Liu MW 2:00pm - 2:50pm F 2:00pm - 2:50pm	Seats (Total: 20) SKN 0200 WDS 1130	Discussion

COMM230 **Argumentation and Debate**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

A study of the fundamental principles of reasoning, analysis, and evidence preparation of debate briefs and presentation of standard academic debate.

Attendance on the first day of class is mandatory.

0101	Victoria Ledford TuTh 8:00am - 9:15am	Seats (Total: 24) LEF 1171	
0201	Victoria Ledford TuTh 9:30am - 10:45am	Seats (Total: 24) LEF 1171	
0301	Darrian Carroll TuTh 11:00am - 12:15pm	Seats (Total: 24) PLS 1184	
0401	Darrian Carroll TuTh 12:30pm - 1:45pm	Seats (Total: 24) PLS 1184	

COMM250 **Introduction to Communication Inquiry**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

An introduction to the field of communication. Definitions, models, and contexts of communication; rhetorical theory and rhetorical criticism of discourse.

0101	Susan Hubbard MW 11:00am - 11:50am Class time/details on ELMs F 9:00am - 9:50am	Seats (Total: 23) SKN 0200 ONLINE SQH 1103	Discussion
0102	Susan Hubbard MW 11:00am - 11:50am Class time/details on ELMs F 10:00am - 10:50am	Seats (Total: 23) SKN 0200 ONLINE SQH 1103	Discussion
0103	Susan Hubbard MW 11:00am - 11:50am Class time/details on ELMs F 11:00am - 11:50am	Seats (Total: 23) SKN 0200 ONLINE SQH 1103	Discussion

0105	Susan Hubbard MW 11:00am - 11:50am Class time/details on ELMs F 9:00am - 9:50am	Seats (Total: 23) SKN 0200 ONLINE EGR 0135	Discussion
0106	Susan Hubbard MW 11:00am - 11:50am Class time/details on ELMs F 10:00am - 10:50am	Seats (Total: 23) SKN 0200 ONLINE EGR 0135	Discussion
0107	Susan Hubbard MW 11:00am - 11:50am Class time/details on ELMs F 10:00am - 10:50am	Seats (Total: 23) SKN 0200 ONLINE SQH 1107	Discussion
0108	Susan Hubbard MW 11:00am - 11:50am Class time/details on ELMs F 11:00am - 11:50am	Seats (Total: 23) SKN 0200 ONLINE SQH 1101	Discussion
0109	Susan Hubbard MW 11:00am - 11:50am Class time/details on ELMs F 11:00am - 11:50am	Seats (Total: 23) SKN 0200 ONLINE EGR 0135	Discussion

COMM269B **Special Topics in Study Abroad II; Oral Communication for Leaders in the Business World**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

COMM269C **Special Topics in Study Abroad II; Designing Communication Campaigns**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

COMM269F **Special Topics in Study Abroad II; Social Media, Social Food**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

COMM269M **Special Topics in Study Abroad II; Media Technology**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

COMM269P **Special Topics in Study Abroad II; Principles of Film and Media Production**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

COMM269R **Special Topics in Study Abroad II; Introduction to Public Relations**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

COMM288 **Communication Internship**

(Perm req)

Credits: 1-6

Grading Method: Regular, Pass-Fail, Audit

An individual experience arranged by the student with the instructor. Does not satisfy communication major requirements. 45 hours of supervised internship per credit hour with communication professional. Not a substitute for COMM386.

0101	Julie Gowin Contact instructor or department for details.	Seats (Total: 20)
0601	Leah Waks Contact instructor or department for details.	Seats (Total: 20)

COMM298R **Selected Topics in Communication; Introduction to Public Relations**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topical study of contemporary issues in communication.

Contact department for information to register for this course.

COMM324 **Communication and Gender**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit , D | General Education: DSHU, DVUP

The creation of images of male and female, and masculine and feminine, through communication, the differences in male and female communication behaviors and styles, and the implications of those images and styles for male-female transactions.

0101	Kimberley Hannah-Prater MW 3:30pm - 4:45pm	Seats (Total: 35) CHM 0119
0201	Kimberley Hannah-Prater MW 5:00pm - 6:15pm	Seats (Total: 35) CHM 0119
0301	Skye De Saint Felix TuTh 8:00am - 9:15am	Seats (Total: 35) SKN 1115
0401	Skye De Saint Felix TuTh 9:30am - 10:45am	Seats (Total: 35) SKN 1115

COMM330 **Argumentation and Public Policy**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Contemporary theories of argumentation with special emphasis on methods of formulating and critiquing public policy argument.

0101	Meridith Styer MW 2:00pm - 3:15pm	Seats (Total: 35) PLS 1117
SG91	Meridith Styer MW 9:30am - 10:45am	Seats (Total: 40) BLD3 4212

COMM331 **News Writing and Reporting for Public Relations**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: COMM201; and must have completed or be concurrently enrolled in JOUR181. Restriction: Must be in Communication program; and (sophomore standing; or junior standing). Or permission of ARHU-Communication department. Credit only granted for: JOUR201, COMM231, or COMM331. Formerly: COMM231.

Writing and researching news and information media for public relations; laboratory in news-gathering tools and writing techniques for public relations.

0101	Vijaya Bohlmann M 11:00am - 12:50pm W 11:00am - 12:50pm	Seats (Total: 18) PLS 1129 PLS 1129	 Lab

COMM332 **News Editing for Public Relations**

(Perm req) Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in COMM331; or students who have taken courses with comparable content may contact the department. And permission of ARHU-Communication department. Restriction: Must be in Communication program. Credit only granted for: JOUR202, COMM232, or COMM332. Formerly: COMM232.

Copy editing, graphic principles and processes, news and information technologies for public relations.

0101	Vijaya Bohlmann Tu 8:00am - 9:15am Th 8:00am - 9:15am	Seats (Total: 18) PLS 1129 PLS 1129	 Lab
0201	Vijaya Bohlmann Tu 9:30am - 10:45am Th 9:30am - 10:45am	Seats (Total: 18) PLS 1129 PLS 1129	 Lab
0301	Mollie Kaufer Tu 5:00pm - 6:15pm Th 5:00pm - 6:15pm	Seats (Total: 18) TWS 0230 TWS 0230	 Lab
0401	Mollie Kaufer Tu 3:30pm - 4:45pm Th 3:30pm - 4:45pm	Seats (Total: 18) TWS 0230 TWS 0230	 Lab

COMM351 **Public Relations Techniques**

(Perm req) Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: COMM332. Restriction: Must be in Communication program. Credit only granted for: COMM351 or JOUR331. Formerly: JOUR331.

The techniques of public relations, including news releases, publications and printed materials, audio-visual techniques, speeches and special events. Application of these techniques in laboratory and field projects.

0101	Sarah Aghazadeh M 1:00pm - 2:15pm W 1:00pm - 2:15pm	Seats (Total: 18) PLS 1129 PLS 1129	 Lab
0201	Susan Simon M 2:30pm - 3:45pm W 2:30pm - 3:45pm	Seats (Total: 18) PLS 1129 PLS 1129	 Lab
0301	Susan Simon M 4:00pm - 5:15pm W 4:00pm - 5:15pm	Seats (Total: 18) PLS 1129 PLS 1129	 Lab
0401	Sarah Aghazadeh MW 5:30pm - 6:45pm	Seats (Total: 18) PLS 1129	

COMM353 **New Media Writing for Public Relations**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in COMM351. Restriction: Must be in Communication program. Credit only granted for: COMM352 or COMM353. Formerly: COMM352.

Students learn the uses and influence of new media on public relations practice and expand their ability to write using new and traditional media platforms and tools

0101	Luke Capizzo Tu 2:00pm - 3:15pm Th 2:00pm - 3:15pm	Seats (Total: 18) PLS 1129 PLS 1129	 Lab
0201	Luke Capizzo Tu 12:30pm - 1:45pm Th 12:30pm - 1:45pm	Seats (Total: 18) PLS 1129 PLS 1129	 Lab

COMM360 **The Rhetoric of Black America**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit , D

An historical-critical survey of the rhetoric of Black Americans from the colonial period to the present.

0101	Naette Lee	Seats (Total: 35)
	MWF 9:00am - 9:50am	KEY 0102

COMM370 Mediated Communication

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: COMM250. Restriction: Junior standing or higher.

Analysis and critique of structure, performance, content, effects, and future of mediated communication.

0101	Sahar Khamis	Seats (Total: 35)
	TuTh 3:30pm - 4:45pm	TYD 1132

COMM371 Communication and Digital Media

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in Communication program. Credit only granted for: COMM371 or COMM398V. Formerly: COMM398V.

A basic introduction to communication in the digital age. Through class lectures, assignments and projects, students will learn to effectively use new media for the purpose of strategic message creation and management used in the field of communication. Students will apply the basics of visual layout skills and the principles of visual design to create messages using words and images.

This course is restricted to COMM majors at Shady Grove.

SG91	Robert Coleman	Seats (Total: 25)
	MW 9:00am - 10:45am	BLD3 3216
	Restricted to COMM majors at Shady Grove.	

COMM372 Communication, Meaning, and Digital Media

Credits: 3 Grading Method: Regular

Restriction: Must be in Communication program.

An exploration of visual communication and meaning creation. A theoretical and practical application of communication concepts and techniques in the production of visual content.

Formerly COMM498J. Credit granted for COMM498J or COMM372.

SG91	Adam Nixon	Seats (Total: 25)
	M 4:15pm - 6:45pm	BLD3 3216
	Restricted to COMM majors at Shady Grove.	

COMM373 **Communication and Digital Visual Narrative**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in Communication program.

Examination of the traditional style of visual communication, its practices and theoretical underpinnings juxtaposed against contemporary digital media aesthetics and techniques. Utilizing a variety of communication skills and new media tools, students will plan, write, shoot, edit, and upload digital visual narratives.

Formerly COMM498K. Credit granted for COMM498K or COMM373.

SG91	Adam Nixon	Seats (Total: 25)
	Tu 4:15pm - 6:45pm	BLD3 3216
	Restricted to COMM majors at Shady Grove.	

COMM375 **Documentary Theory and Practice**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in Communication program.

A historical and theoretical introduction to documentary films and videos. Students will explore the power of documentaries to address socially significant issues.

SG91	Adam Nixon	Seats (Total: 25)
	W 4:15pm - 6:45pm	BLD3 3216
	Restricted to COMM majors at Shady Grove.	

COMM382 **Essentials of Intercultural Communication**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit , D General Education: DVCC

Credit only granted for: COMM382 or COMM482.

Introduction of major theories and concepts of intercultural communication; examination of processes that make up cultural differences; and use of intercultural communication competence skills.

0201	David Payne TuTh 3:30pm - 4:45pm	Seats (Total: 35) SQH 1121
0301	David Payne TuTh 5:00pm - 6:15pm	Seats (Total: 35) SQH 1121
SG91	David Payne MW 2:00pm - 3:15pm *Restricted to Communication Students at Shady Grove.*	Seats (Total: 40) BLD3 2225

COMM386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail General Education: DSSP

Prerequisite: Permission of ARHU-Communication department. Restriction: Junior standing or higher; and must be in Communication program.

Supervised internship experience with communication professionals. Relation of academic training to professional experience.

0101	Julie Gowin Contact instructor or department for details.	Seats (Total: 60)
SG91	Instructor: TBA Contact instructor or department for details. *Contact department or instructor for details. Restricted to Shady Grove COMM Majors.*	Seats (Total: 20)

COMM388 **Communication Practicum**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail

Supervised professional-level practice in communication.

Contact department for information to register for this course.

COMM398 **Selected Topics in Communication**

(Perm req)

Credits: 3 Grading Method: Regular

Topical study of contemporary issues in communication.

Contact department for information to register for this course.

COMM398C **Selected Topics in Communication; Peer Consulting in Oral Communication**

(Perm req) Credits: 3 Grading Method: Regular

Topical study of contemporary issues in communication.

Prerequisite: permission of department. Provides training in the principles and practice of peer consulting in the context of an oral communication center. Students will apply and integrate the knowledge and skills acquired in COMM107 (or COMM200) with new training to help their peers become outstanding listeners and speakers. They will also engage in a group research project designed to extend knowledge in peer consulting best practices.

0101	Jade Olson TuTh 5:00pm - 6:15pm Contact instructor or department for details.	Seats (Total: 15) SKN 2117

COMM398E Selected Topics in Communication; Health Communication

Credits: 3 Grading Method: Regular

Topical study of contemporary issues in communication.

Restricted to COMM (1506A) majors only.

0101	Kang Namkoong MW 2:00pm - 3:15pm	Seats (Total: 35) KEY 1117
SG91	Soyoung Bae TuTh 11:00am - 12:15pm *Restricted to Communication Students at Shady Grove.*	Seats (Total: 40) BLD3 2225

COMM398F Selected Topics in Communication; Web Graphics, Coding, and Site Design

Credits: 3 Grading Method: Regular

Topical study of contemporary issues in communication.

Contact department for information to register for this course.

COMM398K Selected Topics in Communication; Communication and Strategic Message Design

Credits: 3 Grading Method: Regular

Topical study of contemporary issues in communication.

SG91	Robert Coleman MW 11:00am - 12:15pm *Restricted to COMM majors at Shady Grove.*	Seats (Total: 25) BLD3 3216

COMM398L **Selected Topics in Communication; Science, Media, and the Public**

Credits: 3 Grading Method: Regular

Topical study of contemporary issues in communication.

This course is designed to introduce the interrelationship among science , media, and society. We will address current thinking about how do mass media shape the nature of public debates about science, where do people go for information about science, and how public understand science. Upon successful completion of this course, students will be able to specify the roles of knowledge, expertise, risk, media, public understanding and discourse play in perceptions of science and policy making.

0101	Ji Youn Kim TuTh 3:30pm - 4:45pm	Seats (Total: 35) SQH 1101

COMM398N **Selected Topics in Communication; Communication and Digital Imaging**

Credits: 3 Grading Method: Regular

Topical study of contemporary issues in communication.

SG91	Robert Coleman MW 2:00pm - 3:45pm *Restricted to COMM majors at Shady Grove.*	Seats (Total: 25) BLD3 3216

COMM398Z **Selected Topics in Communication; Media Ethics and Cultural Citizenship**

Credits: 3 Grading Method: Regular

Topical study of contemporary issues in communication.

Contact department for information to register for this course.

COMM399 **Honors Thesis**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

0601	Leah Waks Contact instructor or department for details.	Seats (Total: 10)
1001	Andrew Wolvin Contact instructor or department for details.	Seats (Total: 5)
3801	Dale Hample Contact instructor or department for details.	Seats (Total: 10)

4001	Xiaoli Nan Contact instructor or department for details.	Seats (Total: 10)	
4601	Michelle Yang Contact instructor or department for details.	Seats (Total: 5)	
4801	Nick Joyce Contact instructor or department for details.	Seats (Total: 5)	
5301	Kang Namkoong Contact instructor or department for details.	Seats (Total: 5)	
5501	Catherine Steele Contact instructor or department for details.	Seats (Total: 5)	

COMM400 **Research Methods in Communication**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: COMM250; and must have an introductory course in statistics. Restriction: Must be in Communication program.

Philosophy of scientific method; role of theory; research ethics; empirical research methods (measurement, sampling, design, analysis).

Attendance on the first day of class is mandatory. For majors only.

0101	Nick Joyce TuTh 2:00pm - 2:50pm F 9:00am - 9:50am	Seats (Total: 20) MMH 1400 ESJ B0320	Discussion
0102	Nick Joyce TuTh 2:00pm - 2:50pm F 10:00am - 10:50am	Seats (Total: 20) MMH 1400 ESJ B0320	Discussion
0103	Nick Joyce TuTh 2:00pm - 2:50pm F 11:00am - 11:50am	Seats (Total: 20) MMH 1400 ESJ B0320	Discussion
0104	Nick Joyce TuTh 2:00pm - 2:50pm F 9:00am - 9:50am	Seats (Total: 20) MMH 1400 AJC 2134	Discussion

0105	Nick Joyce TuTh 2:00pm - 2:50pm F 10:00am - 10:50am	Seats (Total: 20) MMH 1400 AJC 2134	Discussion
0106	Nick Joyce TuTh 2:00pm - 2:50pm F 11:00am - 11:50am	Seats (Total: 20) MMH 1400 ANS 0402	Discussion

COMM401 **Interpreting Strategic Discourse**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: COMM250. Restriction: Must be in Communication program.

Principles and approaches for practical analysis of discourse designed to shape audience opinion.

Attendance on the first day of classes is mandatory.

0101	Damien Pfister TuTh 12:30pm - 1:20pm W 9:00am - 9:50am	Seats (Total: 20) SHM 2102 PLS 1146	Discussion
0102	Damien Pfister TuTh 12:30pm - 1:20pm W 10:00am - 10:50am	Seats (Total: 20) SHM 2102 PLS 1146	Discussion
0103	Damien Pfister TuTh 12:30pm - 1:20pm W 11:00am - 11:50am	Seats (Total: 20) SHM 2102 PLS 1146	Discussion
0104	Damien Pfister TuTh 12:30pm - 1:20pm W 9:00am - 9:50am	Seats (Total: 20) SHM 2102 PLS 1164	Discussion
0105	Damien Pfister TuTh 12:30pm - 1:20pm W 10:00am - 10:50am	Seats (Total: 20) SHM 2102 PLS 1164	Discussion
0106	Damien Pfister TuTh 12:30pm - 1:20pm W 11:00am - 11:50am	Seats (Total: 20) SHM 2102 PLS 1164	Discussion

SG91	Meridith Styer MW 11:00am - 12:15pm *Restricted to COMM majors at Shady Grove.*	Seats (Total: 40) BLD3 2225	

COMM402 **Communication Theory and Process**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: COMM250. Restriction: Must be in Communication program.

Philosophical and conceptual analysis of communication theories.

Attendance on the first day of classes is mandatory.

0101	Kang Namkoong MW 12:00pm - 12:50pm M 9:00am - 9:50am	Seats (Total: 20) JMP 3201 CHE 2145	Discussion
0102	Kang Namkoong MW 12:00pm - 12:50pm M 10:00am - 10:50am	Seats (Total: 20) JMP 3201 CHE 2145	Discussion
0103	Kang Namkoong MW 12:00pm - 12:50pm M 11:00am - 11:50am	Seats (Total: 20) JMP 3201 CHE 2145	Discussion
0104	Kang Namkoong MW 12:00pm - 12:50pm M 9:00am - 9:50am	Seats (Total: 20) JMP 3201 JMP 1109	Discussion
0105	Kang Namkoong MW 12:00pm - 12:50pm M 10:00am - 10:50am	Seats (Total: 20) JMP 3201 JMP 1109	Discussion
0106	Kang Namkoong MW 12:00pm - 12:50pm M 11:00am - 11:50am	Seats (Total: 20) JMP 3201 JMP 1109	Discussion
SG91	Soyoung Bae TuTh 12:30pm - 1:45pm *Restricted to COMM majors at Shady Grove.*	Seats (Total: 40) BLD3 2225	

COMM420 **Theories of Group Discussion**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Current theory, research and techniques regarding small group process, group dynamics, leadership and decision-making.

SG91	David Payne	Seats (Total: 40)
	MW 12:30pm - 1:45pm	BLD3 2225
	Restricted to Communication Students at Shady Grove.	

COMM422 **Communication Management**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Communication policies, plans, channels, and practices in the managemen of the communication function in organizations.

0101	Andrew Wolvin	Seats (Total: 35)
	TuTh 8:00am - 9:15am	KEY 0103

COMM424 **Communication in Complex Organizations**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Structure and function of communication within organizations: organizational climate and culture, information flow, networks and role relationships.

0101	Raphael Mazzone	Seats (Total: 35)
	MW 3:30pm - 4:45pm	TYD 1108

COMM424H **Communication in Complex Organizations**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Structure and function of communication within organizations: organizational climate and culture, information flow, networks and role relationships.

Restricted to Departmental Honors Students. For permission to register, please contact the Advising Office.

0101	Lindsey Anderson MW 2:00pm - 3:15pm	Seats (Total: 15) EGR 1102

COMM425 **Negotiation and Conflict Management**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Role of communication in shaping negotiation and conflict processes and outcomes.

This course is restricted to COMM majors only.

0101	Lauren Edelstein TuTh 11:00am - 12:15pm	Seats (Total: 45) HBK 0302H

COMM426 **Conflict Management**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Recommended: COMM425; and COMM250; and COMM402.

Role of communication in managing conflict processes.

This course is restricted to COMM majors only.

0101	Lauren Edelstein TuTh 9:30am - 10:45am	Seats (Total: 45) HBK 0302H

COMM427 **Crisis Communication**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: COMM398C or COMM427. Formerly: COMM398C.

Explores theories and research related to communication before, during, and after a crisis. Students examine the fundamentals of organizational communication, crisis management, and strategic and crisis communication planning before examining case studies of a number of real-life crises: organizational crises, natural disasters, accidents, terrorism incidents, health crises, and major crises of credibility.

SG91	Judith Tenney TuTh 11:00am - 12:15pm *Restricted to COMM majors at Shady Grove.*	Seats (Total: 40) BLD3 2226

COMM435 **Theories of Interpersonal Communication**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: COMM400; or permission of ARHU-Communication department.

Major theoretical approaches and research trends in the study of interpersonal communication.

0101	Dale Hample	Seats (Total: 35)
	TuTh 3:30pm - 4:45pm	ASY 3207

COMM450 **Ancient and Medieval Rhetorical Theory**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: COMM250. Restriction: Must be in Communication program. Credit only granted for: COMM450 or COMM650.

A survey of rhetorical theory in the ancient and medieval periods. Emphasis is placed on the theoretical problems that gave rise to its development within both periods. Authors include Isocrates, Plato, Aristotle, Cicero, Quintilian, Hermogenes, Martianus Capella, Aurelius Augustine, Alberic of Monte Cassino, Geoffrey of Vinsauf and Robert of Basevorn.

0101	Damien Pfister	Seats (Total: 35)
	TuTh 2:00pm - 3:15pm	ARC 1101

COMM454 **Rhetoric of the 1960s**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: COMM401; or permission of ARHU-Communication department. Restriction: Must not have completed COMM453 (Spring2003).

Study of key rhetoric of the 1960s. Treats rhetoric of relevant Presidents and several protest movements including civil rights, anti-war, and women's liberation. Contrasts traditional modes of argument with alternative rhetorical forms.

0101	Michelle Yang	Seats (Total: 35)
	MW 5:00pm - 6:15pm	KEY 0126

COMM460 **Public Life in American Communities, 1634-1900**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Ways that Americans have used their voice to create public life. Focus is on the diverse social communities that have characterized American life and the place and characteristics of oral discourse in each.

0101	Carly Woods MW 2:00pm - 3:15pm	Seats (Total: 35) PHY 1402

COMM468A **Seminar in Mediated Communication; Arab Media**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

The examination of special topics related to the study of mediated communication.

0101	Sahar Khamis TuTh 12:30pm - 1:45pm	Seats (Total: 35) WDS 1114

COMM469G **The Discourse of Social Movements; Rhetoric of Gender Activism**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Study of key social movements that have influenced American social and political life. In alternate years the Civil Rights Movement and the Rhetoric of Women's Suffrage and Abolitionism. Consideration of how groups excluded from or marginalized in American political life affect social change.

0101	Carly Woods MW 3:30pm - 4:45pm	Seats (Total: 35) PLS 1117

COMM470 **Listening**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

The principles of listening behavior.

This course is restricted to COMM majors only.

0101	Andrew Wolvin TuTh 11:00am - 12:15pm	Seats (Total: 35) SKN 0104

COMM475 **Persuasion**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Bases of persuasion, with emphasis on recent experimental developments in persuasion.

This course is restricted to COMM majors only.

0101	Susan Hubbard MW 12:30pm - 1:45pm	Seats (Total: 45) TYD 1132

COMM478 **Communication Colloquium**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Current trends and issues in the field of communication, stressing recent research methods. Recommended for senior and graduate student majors and minors in communication.

0101	Ji Youn Kim F 12:00pm - 1:30pm	Seats (Total: 50) SKN 0200

COMM483 **Senior Seminar in Public Relations**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: COMM351 and COMM400. Credit only granted for: COMM483 or JOUR483. Formerly: JOUR483.

Integration of theory, techniques and research methods into the planning and execution of public relations campaigns for specific organizations. Analysis of research on the case studies of public relations.

0101	Susan Simon TuTh 9:30am - 10:45am	Seats (Total: 20) TWS 1321

COMM488I **Communication Portfolio Project; Strategic Interviewing for the Career You Want**

Credits: 1 Grading Method: Regular

Preparation of the professional communication portfolio.

This course introduces students to advanced techniques in interviewing for job opportunities and career progression. This online course focuses on the dynamics of the interview process, the communication theories and best practices behind influence and persuasion, and the communication aptitudes and skills that distinguish top candidates.

0101	Luke Capizzo	Seats (Total: 50)
	Class time/details on ELMs	ONLINE

COMM489 **Topical Research**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Individualized research projects conducted with a faculty sponsor.

Contact department for information to register for this course.

COMM498A **Seminar; Black Discourse and Digital Media**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Present-day communication research.

Examines the connections between black discourse, oral culture, and traditional media with new digital media technology. Various methods, theoretical approaches, and tools for studying social media and online communication.

0101	Catherine Steele	Seats (Total: 35)
	TuTh 9:30am - 10:45am	ARC 1101

COMM498F **Seminar; Public Relations and Corporate Socical Responsibility**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Present-day communication research.

Prerequisite: Must have completed COMM201 with a C- or better. Restricted to COMM majors (1506A) only. There is growing interest in business ethics and corporate social responsibility, but how a company can strategically be involved in CSR practices and communicate them is still unclear. This course will examine the following questions: What is CSR? What is the theoretical background relevant to CSR? What has previous research on CSR found? What are the dominant and/or ideal strategies and tactics for CSR? Without prescribing simple solutions, we will seek answers to these questions. The exploration is intended to be interactive, with the journey of exploration involving an analysis of CSR-related issues and case studies.

0101	Sun Young Lee	Seats (Total: 20)
	MW 2:00pm - 3:15pm	TLF 1101

COMM498L **Seminar; Introduction to Screenwriting for Television and Film**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Present-day communication research.

SG91	Adam Nixon	Seats (Total: 25)
	Th 4:15pm - 6:45pm	BLD3 3216
	Restricted to COMM majors at Shady Grove.	

COMM498M **Seminar; The Israeli War Discourse**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Present-day communication research.

Also offered as ISRL448M. Credit only granted for ISRL448M or COMM498M. This online course focuses on a unique discourse in Israel, 'war-normalizing discourse', a set of linguistic, discursive, and cultural devices that blur the anomalous characteristics of war by transforming war into a "normal" part of life. The course will examine the reciprocal relations between this discourse, Israeli culture and and society, and foreign policy.

0101	Elie Friedman	Seats (Total: 35)
	Class time/details on ELMs	ONLINE

COMM498O **Seminar; Public Relations Research, Data and Insights**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Present-day communication research.

Prerequisite: COMM350 or COMM201/COMM298P. Restricted to COMM (1506A) majors only. A practicum will work in teams to extract data to solve a public relations client problem. Students receive training and skills in secondary, quantitative, an qualitative techniques to analyze data to help a client set goals and measurable objectives. The course features the latest communication technology tools and unpacks them for students.

0101	Elizabeth Toth	Seats (Total: 35)
	TuTh 5:00pm - 6:15pm	SKN 0104

COMM498R **Seminar; Risk Communication**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Present-day communication research.

0101	Ji Youn Kim	Seats (Total: 35)
	TuTh 2:00pm - 3:15pm	SQH 1101

COMM498V **Seminar; Visual Rhetoric**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Present-day communication research.

Restricted to COMM (1506A) majors only.

0101	Michelle Yang	Seats (Total: 35)
	MW 3:30pm - 4:45pm	SQH 1117

COMM498Y **Seminar; Freedom of Speech & the First Amendment**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Present-day communication research.

This course examines the U.S. Supreme Court's rulings on freedom of speech cases grounded in the First Amendment.

0101	Anne Smithson	Seats (Total: 35)
	MW 2:00pm - 3:15pm	JMP 1202

COMM498Z **Seminar; Intergroup Communication**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Present-day communication research.

Restrictions: Restricted to COMM majors (1506A) only.

0101	Nick Joyce	Seats (Total: 18)
	TuTh 12:30pm - 1:45pm	SQH 1105

COMM609 **Fundamentals of Interpreting**

Credits: 2-6 Grading Method: Regular, Audit

Develops a systematic, reflective approach to interpreting tasks in real-world settings and outlines the use of different modes of interpreting under professional working conditions. Provides an overview of interpreting skills with exercises to develop them, including focus on active listening and analysis, effective use of memory, and delivery of the target message. Interpreting strategies and techniques in both dialogue and formal consecutive settings are discussed and practiced in a range of interpreting domains. Includes sight translation.

Must be in Graduate Studies in Translation and Interpreting program. For permission to enroll, contact oes@umd.edu.

PG01	Esperanza Pombo Lopez-Barron	Seats (Total: 30)
	Contact instructor or department for details.	

COMM609A **Fundamentals of Interpreting; Methodology**

Credits: 1 Grading Method: Regular, Audit

Develops a systematic, reflective approach to interpreting tasks in real-world settings and outlines the use of different modes of interpreting under professional working conditions. Provides an overview of interpreting skills with exercises to develop them, including focus on active listening and analysis, effective use of memory, and delivery of the target message. Interpreting strategies and techniques in both dialogue and formal consecutive settings are discussed and practiced in a range of interpreting domains. Includes sight translation.

Must be in Graduate Studies in Translation and Interpreting program. For permission to enroll, contact oes@umd.edu.

XG01	Esperanza Pombo Lopez-Barron	Seats (Total: 16)
	W 1:00pm - 2:50pm	SKN 3118
	Biweekly. Start Date 08-29.	

COMM609B **Fundamentals of Interpreting; Arabic into English/English into Arabic**

Credits: 1 Grading Method: Regular, Audit

Develops a systematic, reflective approach to interpreting tasks in real-world settings and outlines the use of different modes of interpreting under professional working conditions. Provides an overview of interpreting skills with exercises to develop them, including focus on active listening and analysis, effective use of memory, and delivery of the target message. Interpreting strategies and techniques in both dialogue and formal consecutive settings are discussed and practiced in a range of interpreting domains. Includes sight translation.

Must be in Graduate Studies in Translation and Interpreting program. For permission to enroll, contact oes@umd.edu.

XGA1	Ihab Ali Sa 2:30pm - 3:30pm *Weekly. Start Date: 09-01.*	Seats (Total: 16) SKN 3118
XGE1	Ihab Ali Sa 3:30pm - 4:30pm	Seats (Total: 16) SKN 3118

COMM609C **Fundamentals of Interpreting; Sight Translation: Arabic into English/English into Arabic**

Credits: 1

Grading Method: Regular,
Audit

Develops a systematic, reflective approach to interpreting tasks in real-world settings and outlines the use of different modes of interpreting under professional working conditions. Provides an overview of interpreting skills with exercises to develop them, including focus on active listening and analysis, effective use of memory, and delivery of the target message. Interpreting strategies and techniques in both dialogue and formal consecutive settings are discussed and practiced in a range of interpreting domains. Includes sight translation.

Must be in Graduate Studies in Translation and Interpreting program. For permission to enroll, contact oes@umd.edu.

XGA1	John Samaha Jr Contact instructor or department for details.	Seats (Total: 16)
XGE1	John Samaha Jr Contact instructor or department for details.	Seats (Total: 16)

COMM609D **Fundamentals of Interpreting; Chinese into English/English into Chinese**

Credits: 1

Grading Method: Regular,
Audit

Develops a systematic, reflective approach to interpreting tasks in real-world settings and outlines the use of different modes of interpreting under professional working conditions. Provides an overview of interpreting skills with exercises to develop them, including focus on active listening and analysis, effective use of memory, and delivery of the target message. Interpreting strategies and techniques in both dialogue and formal consecutive settings are discussed and practiced in a range of interpreting domains. Includes sight translation.

Must be in Graduate Studies in Translation and Interpreting program. For permission to enroll, contact oes@umd.edu.

XGC1	Yu Tang M 6:00pm - 7:50pm *Chinese into English. Meets Biweekly.*	Seats (Total: 16) SKN 3117
XGE1	Yu Tang M 6:00pm - 7:50pm *English into Chinese. Meets biweekly.*	Seats (Total: 16) SKN 3117

COMM609E **Fundamentals of Interpreting; Sight Translation: Chinese into English/English into Chinese**

Credits: 1 Grading Method: Regular, Audit

Develops a systematic, reflective approach to interpreting tasks in real-world settings and outlines the use of different modes of interpreting under professional working conditions. Provides an overview of interpreting skills with exercises to develop them, including focus on active listening and analysis, effective use of memory, and delivery of the target message. Interpreting strategies and techniques in both dialogue and formal consecutive settings are discussed and practiced in a range of interpreting domains. Includes sight translation.

Must be in Graduate Studies in Translation and Interpreting program. For permission to enroll, contact oes@umd.edu.

XGC1	Irina Knizhnik W 6:00pm - 6:50pm *Chinese into English. Biweekly. Start Date 08-29.*	Seats (Total: 4) EGR 3111
XGE1	Yu Tang W 7:00pm - 7:50pm *English into Chinese. Biweekly. Start Date 08-30.*	Seats (Total: 16) PLS 1168

COMM609F **Fundamentals of Interpreting; French into English/English into French**

Credits: 1 Grading Method: Regular, Audit

Develops a systematic, reflective approach to interpreting tasks in real-world settings and outlines the use of different modes of interpreting under professional working conditions. Provides an overview of interpreting skills with exercises to develop them, including focus on active listening and analysis, effective use of memory, and delivery of the target message. Interpreting strategies and techniques in both dialogue and formal consecutive settings are discussed and practiced in a range of interpreting domains. Includes sight translation.

Must be in Graduate Studies in Translation and Interpreting program. For permission to enroll, contact oes@umd.edu.

XGE1	Gerard Francois M 9:00am - 10:50am *English into French. Biweekly.*	Seats (Total: 16) SKN 3118
XGF1	Rosalinda Meza-Steel Sa 12:30pm - 1:30pm *French into English. Weekly.*	Seats (Total: 16) SKN 3117

COMM609G **Fundamentals of Interpreting; Sight Translation: French into English/English into French**

Credits: 1 Grading Method: Regular, Audit

Develops a systematic, reflective approach to interpreting tasks in real-world settings and outlines the use of different modes of interpreting under professional working conditions. Provides an overview of interpreting skills with exercises to develop them, including focus on active listening and analysis, effective use of memory, and delivery of the target message. Interpreting strategies and techniques in both dialogue and formal consecutive settings are discussed and practiced in a range of interpreting domains. Includes sight translation.

Must be in Graduate Studies in Translation and Interpreting program. For permission to enroll, contact oes@umd.edu.

XGE1	Brigitte Andreassier Class time/details on ELMs	Seats (Total: 16) ONLINE
XGF1	Anna Mason Contact instructor or department for details. *French into English.*	Seats (Total: 16)

COMM609O **Fundamentals of Interpreting; English into Russian/Russian into English**

Credits: 1 Grading Method: Regular, Audit

Develops a systematic, reflective approach to interpreting tasks in real-world settings and outlines the use of different modes of interpreting under professional working conditions. Provides an overview of interpreting skills with exercises to develop them, including focus on active listening and analysis, effective use of memory, and delivery of the target message. Interpreting strategies and techniques in both dialogue and formal consecutive settings are discussed and practiced in a range of interpreting domains. Includes sight translation.

Must be in Graduate Studies in Translation and Interpreting program. For permission to enroll, contact oes@umd.edu.

XGE1	Nikolai Sorokin W 9:00am - 10:50am *English into Russian. Weekly. Start Date 08-29.*	Seats (Total: 16) SKN 3117
XGR1	Nikolai Sorokin W 11:30am - 1:30pm *Russian into English. Biweekly. Start Date 09-05.*	Seats (Total: 16) SKN 3118

COMM609P **Fundamentals of Interpreting; Sight Translation: English into Russian/Russian into English**

Credits: 1 Grading Method: Regular, Audit

Develops a systematic, reflective approach to interpreting tasks in real-world settings and outlines the use of different modes of interpreting under professional working conditions. Provides an overview of interpreting skills with exercises to develop them, including focus on active listening and analysis, effective use of memory, and delivery of the target message. Interpreting strategies and techniques in both dialogue and formal consecutive settings are discussed and practiced in a range of interpreting domains. Includes sight translation.

Must be in Graduate Studies in Translation and Interpreting program. For permission to enroll, contact oes@umd.edu.

XGE1	Nikolai Sorokin W 11:00am - 11:50am Contact instructor or department for details. *English into Russian. Weekly. Start Date 08-29.*	Seats (Total: 16) SKN 3117
XGR1	Nikolai Sorokin W 1:30pm - 2:30pm Contact instructor or department for details. *Russian into English. Biweekly. Start Date 09-05.*	Seats (Total: 16) SKN 3118

COMM609T **Fundamentals of Interpreting; German into Spanish**

Credits: 1 Grading Method: Regular, Audit

Develops a systematic, reflective approach to interpreting tasks in real-world settings and outlines the use of different modes of interpreting under professional working conditions. Provides an overview of interpreting skills with exercises to develop them, including focus on active listening and analysis, effective use of memory, and delivery of the target message. Interpreting strategies and techniques in both dialogue and formal consecutive settings are discussed and practiced in a range of interpreting domains. Includes sight translation.

Must be in Graduate Studies in Translation and Interpreting program. For permission to enroll, contact oes@umd.edu.

XGG1	Instructor: TBA	Seats (Total: 16)
	Class time/details on ELMs	ONLINE
	German into Spanish. Restricted to students in GSIT program.	

COMM609U **Fundamentals of Interpreting; Sight Translation - German into Spanish**

Credits: 1

Grading Method: Regular,
Audit

Develops a systematic, reflective approach to interpreting tasks in real-world settings and outlines the use of different modes of interpreting under professional working conditions. Provides an overview of interpreting skills with exercises to develop them, including focus on active listening and analysis, effective use of memory, and delivery of the target message. Interpreting strategies and techniques in both dialogue and formal consecutive settings are discussed and practiced in a range of interpreting domains. Includes sight translation.

Must be in Graduate Studies in Translation and Interpreting program. For permission to enroll, contact oes@umd.edu.

XGG1	Instructor: TBA	Seats (Total: 16)
	Class time/details on ELMs	ONLINE
	German into Spanish. Restricted to students in GSIT program.	

COMM609W **Fundamentals of Interpreting; Sight Translation - Italian into Spanish/Spanish into Italian**

Credits: 1

Grading Method: Regular,
Audit

Develops a systematic, reflective approach to interpreting tasks in real-world settings and outlines the use of different modes of interpreting under professional working conditions. Provides an overview of interpreting skills with exercises to develop them, including focus on active listening and analysis, effective use of memory, and delivery of the target message. Interpreting strategies and techniques in both dialogue and formal consecutive settings are discussed and practiced in a range of interpreting domains. Includes sight translation.

Must be in Graduate Studies in Translation and Interpreting program. For permission to enroll, contact oes@umd.edu.

XGI1	Instructor: TBA Contact instructor or department for details. *Italian into Spanish.*	Seats (Total: 16)

COMM609X **Fundamentals of Interpreting; Spanish into Russian/Russian into Spanish**

Credits: 1 Grading Method: Regular, Audit

Develops a systematic, reflective approach to interpreting tasks in real-world settings and outlines the use of different modes of interpreting under professional working conditions. Provides an overview of interpreting skills with exercises to develop them, including focus on active listening and analysis, effective use of memory, and delivery of the target message. Interpreting strategies and techniques in both dialogue and formal consecutive settings are discussed and practiced in a range of interpreting domains. Includes sight translation.

Must be in Graduate Studies in Translation and Interpreting program. For permission to enroll, contact oes@umd.edu.

XGS1	Sergei Chernov Sa 10:30am - 11:30am *Spanish into Russian.*	Seats (Total: 16) SKN 3117

COMM609Y **Fundamentals of Interpreting; Sight Translation - Spanish into Russian/Russian into Spanish**

Credits: 1 Grading Method: Regular, Audit

Develops a systematic, reflective approach to interpreting tasks in real-world settings and outlines the use of different modes of interpreting under professional working conditions. Provides an overview of interpreting skills with exercises to develop them, including focus on active listening and analysis, effective use of memory, and delivery of the target message. Interpreting strategies and techniques in both dialogue and formal consecutive settings are discussed and practiced in a range of interpreting domains. Includes sight translation.

Must be in Graduate Studies in Translation and Interpreting program. For permission to enroll, contact oes@umd.edu.

XGS1	Sergei Chernov Sa 11:30am - 12:30pm *Spanish into Russian.*	Seats (Total: 16) SKN 3117

COMM610 **Introduction to Translation and Interpreting Studies**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Students must complete an admissions test for first year courses; and permission of ARHU-Communication department.

Provides an overview of the interdisciplinary fields of Translation and Interpreting Studies and establishes relationships between scholarly study and professional practice. Examines how theories and concepts inform practice, guide to a higher level of competence, and address issues of interlingual, intercultural mediation in authentic, real-world settings both past and present. serves as a foundation course for reflective practice and portfolio work through action research methodology and process

Must be in Graduate Studies in Translation and Interpreting program. For permission to enroll, contact oes@umd.edu.

Click here for program information.

PG01	David Sawyer Th 5:30pm - 8:30pm	Seats (Total: 30) Location: TBA

COMM618 **Professional Communication: Rhetoric & Style**

Credits: 3 Grading Method: Regular

Writing instruction in English for professional communicators with a focus on rhetoric, style, and grammar. Designed to teach English writing skills focused on message creation and organization, sentence structure, and language use, typologies of rhetorical genres, registers, and style, research skills, summary-writing skills, to editing skills, and vocabulary building in English writing.

Must be in Enhanced English Fluency program, F2F. For permission to enroll, contact oes@umd.edu.

PCF1	Shawn Parry-Giles, Mollie Kaufer W 12:00pm - 3:00pm	Seats (Total: 20) SKN 3115

COMM619 **Consecutive Interpretation**

Credits: 2-6 Grading Method: Regular, Audit

Builds upon the systematic, reflective approach to interpreting in real-world settings introduced in Fundamentals of Interpreting. Consecutive interpreting skills are consolidated through individual and group practice, and any remaining challenges related to consecutive interpreting sub-skills are identified and addressed. Stresses effective analysis, note-taking, and use of voice during exercises in sight translation, dialogue, and formal consecutive interpreting.

Must be in Graduate Studies in Translation and Interpreting program. For permission to enroll, contact oes@umd.edu.

PG01	Esperanza Pombo Lopez-Barron Contact instructor or department for details.	Seats (Total: 16)

COMM619A **Consecutive Interpretation; Methodology**

Credits: 2-6 Grading Method: Regular, Audit

Builds upon the systematic, reflective approach to interpreting in real-world settings introduced in Fundamentals of Interpreting. Consecutive interpreting skills are consolidated through individual and group practice, and any remaining challenges related to consecutive interpreting sub-skills are identified and addressed. Stresses effective analysis, note-taking, and use of voice during exercises in sight translation, dialogue, and formal consecutive interpreting.

Must be in Graduate Studies in Translation and Interpreting program. For permission to enroll, contact oes@umd.edu.

XG01	Esperanza Pombo Lopez-Barron W 1:30pm - 3:30pm *Biweekly. Start Date: 8-29.*	Seats (Total: 16) SKN 3118

COMM619B **Consecutive Interpretation; Arabic into English/English into Arabic**

Credits: 2-6 Grading Method: Regular, Audit

Builds upon the systematic, reflective approach to interpreting in real-world settings introduced in Fundamentals of Interpreting. Consecutive interpreting skills are consolidated through individual and group practice, and any remaining challenges related to consecutive interpreting sub-skills are identified and addressed. Stresses effective analysis, note-taking, and use of voice during exercises in sight translation, dialogue, and formal consecutive interpreting.

Must be in Graduate Studies in Translation and Interpreting program. For permission to enroll, contact oes@umd.edu.

XGA1	Ihab Ali Contact instructor or department for details.	Seats (Total: 16)
XGE1	Ihab Ali Contact instructor or department for details.	Seats (Total: 16)

COMM619C **Consecutive Interpretation; Sight Translation: Arabic into English/English into Arabic**

Credits: 2-6

Grading Method: Regular, Audit

Builds upon the systematic, reflective approach to interpreting in real-world settings introduced in Fundamentals of Interpreting. Consecutive interpreting skills are consolidated through individual and group practice, and any remaining challenges related to consecutive interpreting sub-skills are identified and addressed. Stresses effective analysis, note-taking, and use of voice during exercises in sight translation, dialogue, and formal consecutive interpreting.

Must be in Graduate Studies in Translation and Interpreting program. For permission to enroll, contact oes@umd.edu.

XGA1	John Samaha Jr Contact instructor or department for details.	Seats (Total: 16)
XGE1	John Samaha Jr Contact instructor or department for details.	Seats (Total: 16)

COMM629 **Introduction to Simultaneous Interpretation**

Credits: 1

Grading Method: Regular, Audit

Builds upon the overview of the simultaneous mode in Fundamentals of Interpreting by reviewing the relationship between consecutive and simultaneous skills and introducing work in the booth. Challenges of simultaneous interpreting, including split attention, ear-voice span, and voice and microphone technique are addressed. Participants become familiar with the booth and exercises required to build simultaneous skills. Role and use of portable equipment in professional settings are discussed. Recommended as preparation for the M.A. entrance examination.

Must be in Graduate Studies in Translation and Interpreting program. For permission to enroll, contact oes@umd.edu.

PG01	Ihab Ali Contact instructor or department for details.	Seats (Total: 16)

COMM629A **Introduction to Simultaneous Interpretation; Arabic into English/English into Arabic**

Credits: 1

Grading Method: Regular, Audit

Builds upon the overview of the simultaneous mode in Fundamentals of Interpreting by reviewing the relationship between consecutive and simultaneous skills and introducing work in the booth. Challenges of simultaneous interpreting, including split attention, ear-voice span, and voice and microphone technique are addressed. Participants become familiar with the booth and exercises required to build simultaneous skills. Role and use of portable equipment in professional settings are discussed. Recommended as preparation for the M.A. entrance examination.

Must be in Graduate Studies in Translation and Interpreting program. For permission to enroll, contact oes@umd.edu.

XGA1	Ihab Ali Contact instructor or department for details.	Seats (Total: 1)
XGE1	Ihab Ali Contact instructor or department for details.	Seats (Total: 1)

COMM638 **Professional Communication: Rhetoric & Voice**

Credits: 3 Grading Method: Regular

A skills-based course in speaking instruction in English for professional communicators with a focus on public speaking, voice, diction, and pronunciation. Focuses on developing public speaking, voice, diction, and pronunciation skills. Designed to teach message creation and organization, sentence structure, and language use, vocal qualities designed to enhance proper pronunciation, breathing, and articulation skills, register variation, listening skills, English vocabulary, audience adaptation skills with attention to cultural distinctions, presentational skills with visual aids, and interpretive skills.

Must be in Enhanced English Fluency program, F2F. For permission to enroll, contact oes@umd.edu.

PCF1	Mollie Kaufer, Andrew Wolvin Th 12:00pm - 2:50pm	Seats (Total: 20) SKN 3115

COMM639 **Fundamentals of Translation**

Credits: 2-6 Grading Method: Regular, Audit

Develops a systematic, reflective approach to translation involving both the written and spoken word. Provides an overview of domains of translation, associated text categories and translation tasks. Develops strategies to identify, analyze and resolve translation challenges in specific, authentic,real-world contexts. Working with a series of current texts, explores general translation concepts and language-specific strategies. Includes sight translation exercises and introduction to translation resources and computer tools used in the translators workplace.

Must be in Graduate Studies in Translation and Interpreting program. For permission to enroll, contact oes@umd.edu.

PG01	John Samaha Jr, Joseph Mazza Contact instructor or department for details. *Meets every other week beginning Sept. 1st.*	Seats (Total: 30)

COMM639A **Fundamentals of Translation; Methodology**

Credits: 1

Grading Method: Regular, Audit

Develops a systematic, reflective approach to translation involving both the written and spoken word. Provides an overview of domains of translation, associated text categories and translation tasks. Develops strategies to identify, analyze and resolve translation challenges in specific, authentic,real-world contexts. Working with a series of current texts, explores general translation concepts and language-specific strategies. Includes sight translation exercises and introduction to translation resources and computer tools used in the translators workplace.

Must be in Graduate Studies in Translation and Interpreting program. For permission to enroll, contact oes@umd.edu.

XG01	Joseph Mazza, John Samaha Jr F 6:00pm - 7:50pm *Biweekly. Start Date 08-31.*	Seats (Total: 16) Location: TBA

COMM639D **Fundamentals of Translation; Translation: Chinese into English/English into Chinese**

Credits: 1

Grading Method: Regular, Audit

Develops a systematic, reflective approach to translation involving both the written and spoken word. Provides an overview of domains of translation, associated text categories and translation tasks. Develops strategies to identify, analyze and resolve translation challenges in specific, authentic,real-world contexts. Working with a series of current texts, explores general translation concepts and language-specific strategies. Includes sight translation exercises and introduction to translation resources and computer tools used in the translators workplace.

Must be in Graduate Studies in Translation and Interpreting program. For permission to enroll, contact oes@umd.edu.

XGC1	Irina Knizhnik W 4:00pm - 5:50pm *Chinese into English. Biweekly. Start Date 08-30.*	Seats (Total: 9) EGR 3111
XGE1	Min Eu Tu 10:30am - 12:30pm *English into Chinese. Biweekly. Start Date 09-12.*	Seats (Total: 16) Location: TBA

COMM639E **Fundamentals of Translation; Sight Translation: Chinese into ENglish/English into Chinese**

Credits: 1

Grading Method: Regular, Audit

Develops a systematic, reflective approach to translation involving both the written and spoken word. Provides an overview of domains of translation, associated text categories and translation tasks. Develops strategies to identify, analyze and resolve translation challenges in specific, authentic,real-world contexts. Working with a series of current texts, explores general translation concepts and language-specific strategies. Includes sight translation exercises and introduction to translation resources and computer tools used in the translators workplace.

Must be in Graduate Studies in Translation and Interpreting program. For permission to enroll, contact oes@umd.edu.

XGC1	Irina Knizhnik W 6:00pm - 6:50pm *Chinese into English. Biweekly. Start Date 08-30.*	Seats (Total: 4) EGR 3111
XGE1	Yu Tang W 7:00pm - 7:50pm *English into Chinese. Biweekly. Start Date 08-30.*	Seats (Total: 16) PLS 1176

COMM639F **Fundamentals of Translation; Methodology: Translation: French into English/English into French**

Credits: 1 Grading Method: Regular, Audit

Develops a systematic, reflective approach to translation involving both the written and spoken word. Provides an overview of domains of translation, associated text categories and translation tasks. Develops strategies to identify, analyze and resolve translation challenges in specific, authentic,real-world contexts. Working with a series of current texts, explores general translation concepts and language-specific strategies. Includes sight translation exercises and introduction to translation resources and computer tools used in the translators workplace.

Must be in Graduate Studies in Translation and Interpreting program. For permission to enroll, contact oes@umd.edu.

XGE1	Brigitte Andreassier Contact instructor or department for details. *English into French.*	Seats (Total: 16)

COMM639G **Fundamentals of Translation; Sight Translation: French into English/English into French**

Credits: 1 Grading Method: Regular, Audit

Develops a systematic, reflective approach to translation involving both the written and spoken word. Provides an overview of domains of translation, associated text categories and translation tasks. Develops strategies to identify, analyze and resolve translation challenges in specific, authentic,real-world contexts. Working with a series of current texts, explores general translation concepts and language-specific strategies. Includes sight translation exercises and introduction to translation resources and computer tools used in the translators workplace.

Must be in Graduate Studies in Translation and Interpreting program. For permission to enroll, contact oes@umd.edu.

XGE1	Brigitte Andreassier	Seats (Total: 16)
	Contact instructor or department for details.	
	English into French. Weekly starting September 22, via Skype.	

COMM639M **Fundamentals of Translation; Translation: Spanish into English/English into Spanish**

Credits: 1 Grading Method: Regular, Audit

Develops a systematic, reflective approach to translation involving both the written and spoken word. Provides an overview of domains of translation, associated text categories and translation tasks. Develops strategies to identify, analyze and resolve translation challenges in specific, authentic,real-world contexts. Working with a series of current texts, explores general translation concepts and language-specific strategies. Includes sight translation exercises and introduction to translation resources and computer tools used in the translators workplace.

Must be in Graduate Studies in Translation and Interpreting program. For permission to enroll, contact oes@umd.edu.

XGE1	Eva Vilarrubi	Seats (Total: 16)
	Th 4:15pm - 5:15pm	SKN 3117
XGS1	Joseph Mazza	Seats (Total: 16)
	Tu 7:00pm - 8:50pm	Location: TBA
	Spanish into English. Biweekly. Start Date 09-04.	

COMM639N **Fundamentals of Translation; Sight Translation: Spanish into English/English into Spanish**

Credits: 1 Grading Method: Regular, Audit

Develops a systematic, reflective approach to translation involving both the written and spoken word. Provides an overview of domains of translation, associated text categories and translation tasks. Develops strategies to identify, analyze and resolve translation challenges in specific, authentic,real-world contexts. Working with a series of current texts, explores general translation concepts and language-specific strategies. Includes sight translation exercises and introduction to translation resources and computer tools used in the translators workplace.

Must be in Graduate Studies in Translation and Interpreting program. For permission to enroll, contact oes@umd.edu.

XGE1	Eva Vilarrubi W 5:00pm - 5:50pm	Seats (Total: 16) SKN 3117
XGS1	Charles Becker W 6:30pm - 7:30pm *Spanish into English. Biweekly, starting 08-29.*	Seats (Total: 16) SKN 2127

COMM639O **Fundamentals of Translation; Portuguese into English/English into Portuguese**

Credits: 1 Grading Method: Regular, Audit

Develops a systematic, reflective approach to translation involving both the written and spoken word. Provides an overview of domains of translation, associated text categories and translation tasks. Develops strategies to identify, analyze and resolve translation challenges in specific, authentic,real-world contexts. Working with a series of current texts, explores general translation concepts and language-specific strategies. Includes sight translation exercises and introduction to translation resources and computer tools used in the translators workplace.

Must be in Graduate Studies in Translation and Interpreting program. For permission to enroll, contact oes@umd.edu.

XGE1	Mirna Soares Andrade W 6:00pm - 7:50pm *English into Portuguese. Biweekly, Start Date 09/05.*	Seats (Total: 16) SKN 3117
XGP1	Robert Feron W 8:00pm - 8:50pm *Portuguese into English. Meets biweekly.*	Seats (Total: 16) SKN 3115

COMM639P **Fundamentals of Translation; Sight Translation: Portuguese into English/English into Portuguese**

Credits: 1 Grading Method: Regular, Audit

Develops a systematic, reflective approach to translation involving both the written and spoken word. Provides an overview of domains of translation, associated text categories and translation tasks. Develops strategies to identify, analyze and resolve translation challenges in specific, authentic,real-world contexts. Working with a series of current texts, explores general translation concepts and language-specific strategies. Includes sight translation exercises and introduction to translation resources and computer tools used in the translators workplace.

Must be in Graduate Studies in Translation and Interpreting program. For permission to enroll, contact oes@umd.edu.

XGE1	Mirna Soares Andrade W 6:00pm - 7:50pm *English into Portuguese. Biweekly, Start Date 09/06.*	Seats (Total: 16) SKN 3117
XGP1	Robert Feron W 8:00pm - 8:50pm *Portuguese into English. Meets biweekly.*	Seats (Total: 16) SKN 3117

COMM659 **Translation for Language-Specific Markets**

Credits: 1-3 Grading Method: Regular, Audit

Builds translation skills to a highly professional level by developing autonomy in completing authentic, real-world translation projects based upon the reflective approach developed in the first-year curriculum. Develops one or more specializations. Completion of individual and group projects covering all aspects of professional translation from subject matter research, terminology work, and use of computer-assisted translation tools. Sight translation and timed exercises to increase production and meet deadlines.

Must be in Graduate Studies in Translation and Interpreting program. For permission to enroll, contact oes@umd.edu.

PG01	Esperanza Pombo Lopez-Barron Contact instructor or department for details.	Seats (Total: 30)

COMM659B **Translation for Language-Specific Markets; Chinese into English/English into Chinese**

Credits: 1 Grading Method: Regular, Audit

Builds translation skills to a highly professional level by developing autonomy in completing authentic, real-world translation projects based upon the reflective approach developed in the first-year curriculum. Develops one or more specializations. Completion of individual and group projects covering all aspects of professional translation from subject matter research, terminology work, and use of computer-assisted translation tools. Sight translation and timed exercises to increase production and meet deadlines.

Must be in Graduate Studies in Translation and Interpreting program. For permission to enroll, contact oes@umd.edu.

XGC1	Irina Knizhnik W 4:00pm - 5:50pm *Chinese into English. Biweekly. Start Date 08-30.*	Seats (Total: 9) EGR 3111
XGE1	Min Eu Tu 10:30am - 12:30pm *English into Chinese. Biweekly. Start Date 09-12.*	Seats (Total: 16) Location: TBA

COMM659P **Translation for Language-Specific Markets; Portuguese into English/English into Portuguese**

Credits: 1 Grading Method: Regular, Audit

Builds translation skills to a highly professional level by developing autonomy in completing authentic, real-world translation projects based upon the reflective approach developed in the first-year curriculum. Develops one or more specializations. Completion of individual and group projects covering all aspects of professional translation from subject matter research, terminology work, and use of computer-assisted translation tools. Sight translation and timed exercises to increase production and meet deadlines.

Must be in Graduate Studies in Translation and Interpreting program. For permission to enroll, contact oes@umd.edu.

XGE1	Mirna Soares Andrade W 6:00pm - 7:50pm *English into Portuguese. Meets biweekly, start date 09-05.*	Seats (Total: 16) SKN 3117
XGP1	Robert Feron W 6:00pm - 7:50pm *Portuguese into English. Meets biweekly.*	Seats (Total: 16) SKN 3117

COMM669 **Professional Practice Forum in Translation: Practicum**

Credits: 1-2

Grading Method: Regular, Audit

Provides opportunities to complete real-world translation projects on campus and in the public service, legal, business, and political communities as translators, project managers and translators/reviewers working on group projects. Collaboration with participants in the interpreting practicum is also sought to prepare multilingual texts for practicum events and familiarize participants with conference translation. Complements Translation for Specific Markets, and practicum projects are included in course and career reflective practice portfolios. Requires independent study plan agreed with course instructor.

Must be in Graduate Studies in Translation and Interpreting program. For permission to enroll, contact oes@umd.edu.

PG01	Esperanza Pombo Lopez-Barron M 9:00am - 10:50am *Meets 09/10 & 11/12.*	Seats (Total: 30) Location: TBA

COMM679 **Professional Practice Forum in Translation: Workplace Processes and Procedures; Workplace Processing and Procedures Translation**

Credits: 1

Grading Method: Regular, Audit

Provides in-depth exploration of processes and procedures in public service, legal, and political settings requiring translation services. Prepares for translation in real-world settings by discussing procedures across sectors and institutions, enabling informed career plans and choices. Discusses ethics, professional conduct and business practices. Reinforces identity as a professional translator, develops specializations, and pursues professional and career development opportunities through interaction with members of the profession, professional organizations, and institutions in the language industry.

Must be in Graduate Studies in Translation and Interpreting program. For permission to enroll, contact oes@umd.edu.

PG01	Stephen Lank W 8:30am - 10:30am *Biweekly. Start Date 08-29.*	Seats (Total: 30) Location: TBA

COMM686 **Teaching Communication**

Credits: 1

Grading Method: Regular, Audit

Formerly: SPCH686.

Principles of effective teaching--content and process--in the college communication classroom.

0101	Lindsey Anderson W 12:00pm - 1:00pm	Seats (Total: 30) SKN 2127

COMM688 **Communication Field Experience**

(Perm req)

Credits: 1-6 Grading Method: Regular, Audit

Applications of communication principles and research in professional communication settings.

Contact department for information to register for this course.

COMM698 **Special Problems in Communication**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Contact department for information to register for this course.

COMM700 **Introduction to Graduate Study in Communication**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in Communication (Doctoral) program. Formerly: SPCH700.

Basic skills in communication research.

0101	Anita Seate Tu 3:30pm - 6:30pm	Seats (Total: 30) SKN 2127

COMM711 **Historical/Critical Methods in Communication Research**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: COMM700; or permission of instructor. Formerly: SPCH711.

Methods for historical and critical research in communication. Formulation of significant research questions, systematic collection of bibliographic and phenomenal information, formulating substantial claims, organizing and writing research for disciplinary outlets.

0101	Trevor Parry-Giles M 6:30pm - 9:30pm	Seats (Total: 15) SKN 2127

COMM713 **Translation Technology**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: Admissions test for second year courses; and permission of ARHU-Communication department.

Builds upon the principles outlined in Introduction to Computer-Assisted Translation to develop comprehensive knowledge of the current and future roles of technology in translation processes involving both the spoken and the written word, including use of widely available software tools and systems for terminology management, translation memory, and machine translation. Students carry out projects using translation technology, enabling them to apply newly acquired knowledge in applied contexts. Examination of case studies highlights how translation technology is leveraged across public and private sector organizations and the latest developments in the field.

Must be in Graduate Studies in Translation and Interpreting program. For permission to enroll, contact oes@umd.edu.

Click here for program information.

PG01	Jon Ritzdorf M 4:00pm - 8:30pm *Course starts 09-10.*	Seats (Total: 16) SKN 3115

COMM714 **Introduction to Qualitative Methods in Communication Research**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Restriction: Permission of instructor.

Methods for field research in communication including interiewing, ethnographic and participant intervention, focus groups, and content analysis. Formulation of significant research questions, systematic collection of field data, formulating substantial claims from the research, organizing and writing research from disciplinary outlets.

0101	Elizabeth Toth M 3:30pm - 6:30pm	Seats (Total: 15) SKN 2127

COMM719 **Advanced Consecutive Interpretation**

Credits: 2-3

Grading Method: Regular, Audit

Builds consecutive interpreting skills to a highly professional level by sharpening listening, processing, memory, note-taking, and delivery skills, enabling interpretation of highly complex material requiring particular attention to nuance, tone, and style. Includes dialogue and monologue interpreting exercises with specialized subject material. Participants emerge from the course as reflective practitioners with the simultaneous interpreting skills required to perform competently in real-world settings.

Must be in Graduate Studies in Translation and Interpreting program. For permission to enroll, contact oes@umd.edu.

PG01	Esperanza Pombo Lopez-Barron, Peng Wang Contact instructor or department for details.	Seats (Total: 30)

COMM719C **Advanced Consecutive Interpretation; French into English/English into French**

Credits: 1 Grading Method: Regular, Audit

Builds consecutive interpreting skills to a highly professional level by sharpening listening, processing, memory, note-taking, and delivery skills, enabling interpretation of highly complex material requiring particular attention to nuance, tone, and style. Includes dialogue and monologue interpreting exercises with specialized subject material. Participants emerge from the course as reflective practitioners with the simultaneous interpreting skills required to perform competently in real-world settings.

Must be in Graduate Studies in Translation and Interpreting program. For permission to enroll, contact oes@umd.edu.

XGE1	Gerard Francois M 9:00am - 10:50am *English into French. Meets biweekly.*	Seats (Total: 16) SKN 3118
XGF1	Rosalinda Meza-Steel, Pascale Kraus M 11:30am - 3:30pm *French into English. Biweekly. Start Date 08-28.*	Seats (Total: 16) Location: TBA

COMM719F **Advanced Consecutive Interpretation; Spanish into English/English into Spanish**

Credits: 1 Grading Method: Regular, Audit

Builds consecutive interpreting skills to a highly professional level by sharpening listening, processing, memory, note-taking, and delivery skills, enabling interpretation of highly complex material requiring particular attention to nuance, tone, and style. Includes dialogue and monologue interpreting exercises with specialized subject material. Participants emerge from the course as reflective practitioners with the simultaneous interpreting skills required to perform competently in real-world settings.

Must be in Graduate Studies in Translation and Interpreting program. For permission to enroll, contact oes@umd.edu.

XGE1	Rosalinda Meza-Steel Sa 10:30am - 12:30pm *English into Spanish. Biweekly, Start Date 09/09.*	Seats (Total: 16) Location: TBA
XGS1	Rosalinda Meza-Steel Sa 12:30pm - 2:30pm *Spanish into English. Biweekly, Start Date 09/09.*	Seats (Total: 16) Location: TBA

COMM719I **Advanced Consecutive Interpretation; Italian into Spanish/Spanish into Italian**

Credits: 1 Grading Method: Regular, Audit

Builds consecutive interpreting skills to a highly professional level by sharpening listening, processing, memory, note-taking, and delivery skills, enabling interpretation of highly complex material requiring particular attention to nuance, tone, and style. Includes dialogue and monologue interpreting exercises with specialized subject material. Participants emerge from the course as reflective practitioners with the simultaneous interpreting skills required to perform competently in real-world settings.

Must be in Graduate Studies in Translation and Interpreting program. For permission to enroll, contact oes@umd.edu.

XGS1	Instructor: TBA Sa 10:00am - 11:50am *Spanish into Italian. Meets biweekly.*	Seats (Total: 16) ONLINE

COMM719R **Advanced Consecutive Interpretation; Russian into English/English into Russian**

Credits: 1 Grading Method: Regular, Audit

Builds consecutive interpreting skills to a highly professional level by sharpening listening, processing, memory, note-taking, and delivery skills, enabling interpretation of highly complex material requiring particular attention to nuance, tone, and style. Includes dialogue and monologue interpreting exercises with specialized subject material. Participants emerge from the course as reflective practitioners with the simultaneous interpreting skills required to perform competently in real-world settings.

Must be in Graduate Studies in Translation and Interpreting program. For permission to enroll, contact oes@umd.edu.

XGE1	Nikolai Sorokin	Seats (Total: 16)
	W 1:00pm - 2:50pm	SKN 3117
	English into Russian. Meets biweekly, start date 08-29.	
XGR1	Nikolai Sorokin	Seats (Total: 16)
	W 2:30pm - 4:30pm	SKN 3118
	Russian into English. Meets biweekly, start date 09-05.	

COMM719S **Advanced Consecutive Interpretation; French into Spanish/Spanish into French**

Credits: 1 Grading Method: Regular, Audit

Builds consecutive interpreting skills to a highly professional level by sharpening listening, processing, memory, note-taking, and delivery skills, enabling interpretation of highly complex material requiring particular attention to nuance, tone, and style. Includes dialogue and monologue interpreting exercises with specialized subject material. Participants emerge from the course as reflective practitioners with the simultaneous interpreting skills required to perform competently in real-world settings.

Must be in Graduate Studies in Translation and Interpreting program. For permission to enroll, contact oes@umd.edu.

XGF1	Rosalinda Meza-Steel	Seats (Total: 16)
	Sa 4:30pm - 5:30pm	SKN 3117
	French into Spanish.	

COMM729 **Simultaneous Interpretation**

Credits: 2-3 Grading Method: Regular, Audit

Builds upon the discussion of the simultaneous mode and exercises in Introduction to Simultaneous Interpreting by reviewing the relationship between consecutive and simultaneous skills and introducing work in the booth in a series of progressive exercises. Addresses challenges such as coordination of split attention, ear-voice span, memory and delivery / presentation. Reinforces principles of collegial teamwork and good microphone technique in the booth. Enhances preparation skills required for interpretation of specialized subject matter.

Must be in Graduate Studies in Translation and Interpreting program. For permission to enroll, contact oes@umd.edu.

PG01	Esperanza Pombo Lopez-Barron	Seats (Total: 16)
	Contact instructor or department for details.	

COMM729C **Simultaneous Interpretation; French into English/English into French**

Credits: 1 Grading Method: Regular, Audit

Builds upon the discussion of the simultaneous mode and exercises in Introduction to Simultaneous Interpreting by reviewing the relationship between consecutive and simultaneous skills and introducing work in the booth in a series of progressive exercises. Addresses challenges such as coordination of split attention, ear-voice span, memory and delivery / presentation. Reinforces principles of collegial teamwork and good microphone technique in the booth. Enhances preparation skills required for interpretation of specialized subject matter.

Must be in Graduate Studies in Translation and Interpreting program. For permission to enroll, contact oes@umd.edu.

XGE1	Gerard Francois M 11:30am - 1:30pm *English into French. Biweekly, Start Date 08-28.*	Seats (Total: 16) SKN 3118
XGF1	Rosalinda Meza-Steel, Pascale Kraus Sa 12:30pm - 2:30pm *French into English. Biweekly, Start Date 09/02.*	Seats (Total: 16) Location: TBA

COMM729F **Simultaneous Interpretation; Spanish into English/English into Spanish**

Credits: 1 Grading Method: Regular, Audit

Builds upon the discussion of the simultaneous mode and exercises in Introduction to Simultaneous Interpreting by reviewing the relationship between consecutive and simultaneous skills and introducing work in the booth in a series of progressive exercises. Addresses challenges such as coordination of split attention, ear-voice span, memory and delivery / presentation. Reinforces principles of collegial teamwork and good microphone technique in the booth. Enhances preparation skills required for interpretation of specialized subject matter.

Must be in Graduate Studies in Translation and Interpreting program. For permission to enroll, contact oes@umd.edu.

XGE1	Karin Ruckhaus F 4:00pm - 5:50pm *English into Spanish. Biweekly, Start Date 09/08.*	Seats (Total: 16) Location: TBA
XGS1	Rosalinda Meza-Steel Sa 10:30am - 12:30pm *Spanish into English. Biweekly, Start Date 09/02.*	Seats (Total: 16) Location: TBA

COMM729I **Simultaneous Interpretation; Italian into Spanish/Spanish into Italian**

Credits: 1 Grading Method: Regular, Audit

Builds upon the discussion of the simultaneous mode and exercises in Introduction to Simultaneous Interpreting by reviewing the relationship between consecutive and simultaneous skills and introducing work in the booth in a series of progressive exercises. Addresses challenges such as coordination of split attention, ear-voice span, memory and delivery / presentation. Reinforces principles of collegial teamwork and good microphone technique in the booth. Enhances preparation skills required for interpretation of specialized subject matter.

Must be in Graduate Studies in Translation and Interpreting program. For permission to enroll, contact oes@umd.edu.

XGS1	Esperanza Pombo Lopez-Barron W 10:00am - 11:50am *Spanish into Italian. Meets biweekly.*	Seats (Total: 16) SKN 3118

COMM729R **Simultaneous Interpretation; Russian into English/English into Russian**

Credits: 1 Grading Method: Regular, Audit

Builds upon the discussion of the simultaneous mode and exercises in Introduction to Simultaneous Interpreting by reviewing the relationship between consecutive and simultaneous skills and introducing work in the booth in a series of progressive exercises. Addresses challenges such as coordination of split attention, ear-voice span, memory and delivery / presentation. Reinforces principles of collegial teamwork and good microphone technique in the booth. Enhances preparation skills required for interpretation of specialized subject matter.

Must be in Graduate Studies in Translation and Interpreting program. For permission to enroll, contact oes@umd.edu.

XGE1	Nikolai Sorokin W 3:00pm - 4:50pm *English into Russian.*	Seats (Total: 16) SKN 3118
XGR1	Nikolai Sorokin W 9:00am - 10:50am *Russian into English. Meets biweekly, start date 09-05.*	Seats (Total: 16) SKN 3118

COMM729S **Simultaneous Interpretation; French into Spanish/Spanish into French**

Credits: 1

Grading Method: Regular, Audit

Builds upon the discussion of the simultaneous mode and exercises in Introduction to Simultaneous Interpreting by reviewing the relationship between consecutive and simultaneous skills and introducing work in the booth in a series of progressive exercises. Addresses challenges such as coordination of split attention, ear-voice span, memory and delivery / presentation. Reinforces principles of collegial teamwork and good microphone technique in the booth. Enhances preparation skills required for interpretation of specialized subject matter.

Must be in Graduate Studies in Translation and Interpreting program. For permission to enroll, contact oes@umd.edu.

XGF1	Rosalinda Meza-Steel	Seats (Total: 16)
	Sa 11:30am - 12:30pm	SKN 3118
	French into Spanish.	

COMM748 **The Rhetoric of the Presidency**

Credits: 3

Grading Method: Regular, Audit

The study of the historical and contemporary rhetoric of the presidency in appropriate historical and political contexts. Scholarship related to public address studies and theories of the presidency will be featured.

Must be in Enhanced English Fluency program, F2F. For permission to enroll, contact oes@umd.edu.

PCF1	Shawn Parry-Giles	Seats (Total: 20)
	W 9:00am - 11:50am	SKN 2130

COMM759 **Professional Practice Forum in Interpreting: Practicum**

Credits: 1

Grading Method: Regular, Audit

Provides opportunities to interpret consecutively and simultaneously in real-world settings on campus and in the public service, legal, business, and political communities. Develops team leader skills by organizing and convening an event or series of events (conference, debate, or negotiation), selecting topics and delegates, and preparing speeches and arguments to deliver and interpret. Collaboration with participants in M.A. translation courses is sought. Requires independent study plan agreed with course instructor.

Must be in Graduate Studies in Translation and Interpreting program. For permission to enroll, contact oes@umd.edu.

PG01	Esperanza Pombo Lopez-Barron	Seats (Total: 30)
	Tu 9:00am - 10:50am	SKN 3117
	Meets 09-12 & 11-14.	

COMM760 **Seminar in Political Communication**

Credits: 3 Grading Method: Regular, Audit

Formerly: SPCH760.

A blend of theory and practice to integrate rhetorical-critical theory and empirical methods with politics. Practitioners in political communication will be drawn in as resource persons. Students will map the communication strategy for candidates and analyze actual campaign strategies.

0101	Shawn Parry-Giles	Seats (Total: 15)
	Th 3:30pm - 6:30pm	SKN 2127

COMM769 **Professional Practice Forum in Interpreting: Workplace Processes and Procedures; Workplace Processes and Procedures Interpreting**

Credits: 1 Grading Method: Regular, Audit

Provides in-depth exploration of processes and procedures in public service, legal, and political settings where interpreting services are commonplace. Enables students to make informed career plans and choices. Empowers participants by helping to establish and reinforce identity as a professional interpreter, develop specializations, and pursue professional and career development opportunities through interaction with members of the profession, professional organizations, and institutions in the language industry.

Must be in Graduate Studies in Translation and Interpreting program. For permission to enroll, contact oes@umd.edu.

PG01	Miriam Stanicic	Seats (Total: 30)
	Sa 8:30am - 10:30am	Location: TBA
	Meets 09-15, 09-29, 10-13, 10-27, 11-10, 12-01, and 12-15.	

COMM777 **Persuasive Message Strategies**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: COMM698P or COMM777. Formerly: COMM698P.

Examines which persuasive messages are effective to change attitudes and behavior at what times and with what people.

0101	Dale Hample	Seats (Total: 15)
	Tu 7:00pm - 10:00pm	SKN 2127

COMM789 **Seminar: Special Topics in Intercultural Communication; Advanced Intercultural Communications/Negotiations**

Credits: 3 Grading Method: Regular, Audit

Explores special topic areas within the study of intercultural communication, such as culture and conflict, intercultural negotiation, cross-cultural relationships.

Must be in Graduate Studies in Translation and Interpreting program. For permission to enroll, contact oes@umd.edu.

PG01	Monika Roske	Seats (Total: 30)
	Th 12:30pm - 3:30pm	Location: TBA
	Weekly. Start Date 08-30.	

COMM789G **Seminar: Special Topics in Intercultural Communication; Intergroup Communication**

Credits: 3 Grading Method: Regular, Audit

Explores special topic areas within the study of intercultural communication, such as culture and conflict, intercultural negotiation, cross-cultural relationships.

0101	Nick Joyce	Seats (Total: 2)
	TuTh 12:30pm - 1:45pm	SQH 1105

COMM798 **Independent Study**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

An individual course designed for intensive study or research of problems in communication.

Contact department for information to register for this course.

COMM798A **Independent Study; Public Speaking**

Credits: 1-3 Grading Method: Regular, Audit

An individual course designed for intensive study or research of problems in communication.

Must be in Graduate Studies in Translation and Interpreting program. For permission to enroll, contact oes@umd.edu.

PG01	Andrew Wolvin Th 1:00pm - 2:50pm	Seats (Total: 16) SKN 2127
XG01	Cassondra Pope Th 12:00pm - 12:50pm Contact instructor or department for details. *Public Speaking: Diction Weekly. Plus 1 make up session on TBA date.*	Seats (Total: 16) SKN 2127

COMM798B **Independent Study; Text Analysis and Intensive Writing**

Credits: 1-2 Grading Method: Regular, Audit

An individual course designed for intensive study or research of problems in communication.

Must be in Graduate Studies in Translation and Interpreting program. For permission to enroll, contact oes@umd.edu.

PG01	Mollie Kaufer, Shawn Parry-Giles M 2:00pm - 2:50pm *Taught in English. Every other week starting August 30.*	Seats (Total: 16) Location: TBA

COMM798F **Independent Study; English Fluency Enhancement**

Credits: 1-3 Grading Method: Regular, Audit

An individual course designed for intensive study or research of problems in communication.

Must be in Graduate Studies in Translation and Interpreting program. For permission to enroll, contact oes@umd.edu.

PG01	Mollie Kaufer, Shawn Parry-Giles Contact instructor or department for details. *Meets by appointment.*	Seats (Total: 16)

COMM798I **Independent Study; Consecutive Interpreting Skills**

Credits: 1-2 Grading Method: Regular, Audit

An individual course designed for intensive study or research of problems in communication.

Must be in Graduate Studies in Translation and Interpreting program. For permission to enroll, contact oes@umd.edu.

PG01	Esperanza Pombo Lopez-Barron	Seats (Total: 16)
	Contact instructor or department for details.	

COMM798J **Independent Study; Translation Skills**

Credits: 1-2 Grading Method: Regular, Audit

An individual course designed for intensive study or research of problems in communication.

Must be in Graduate Studies in Translation and Interpreting program. For permission to enroll, contact oes@umd.edu.

PG01	Esperanza Pombo Lopez-Barron	Seats (Total: 16)
	Contact instructor or department for details.	

COMM798L **Independent Study; Arabic Fluency Enhancement**

Credits: 3 Grading Method: Regular, Audit

An individual course designed for intensive study or research of problems in communication.

Must be in Graduate Studies in Translation and Interpreting program. For permission to enroll, contact oes@umd.edu.

PG01	Mahmoud Elgibali	Seats (Total: 16)
	Contact instructor or department for details.	

COMM799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

COMM888 **Doctoral Practicum in Communication**

(Perm req)

Credits: 3-9 Grading Method: Regular, Audit

Analysis of professional activity through personal observation. Evaluation of the purpose, process, effectiveness, and efficiency of professional activity. Recommendations for training and further research.

Contact department for information to register for this course.

COMM889 **Doctoral Tutorial in Communication**

(Perm req)

Credits: 3-9 Grading Method: Regular, Audit

Individual research in communication.

Contact department for information to register for this course.

COMM898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

COMM899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

CPBE College Park Scholars-Business, Society, and Economy Fall 2018

CPBE100 **College Park Scholars: Business, Society & the Economy First-Year Colloquium**

Credits: 1 Grading Method: Regular

Restriction: Students must be matriculated into the College Park Scholars Business, Society & the Economy (CPBE) program.

Introductory colloquium: Examination of issues related to business, society and the economy.

0101	Claudia Donnelly Tu 5:00pm - 5:50pm Tu 6:00pm - 6:50pm	Seats (Total: 45) ESJ 1202 ESJ 1202	 Lab
0201	Claudia Donnelly Tu 5:00pm - 5:50pm Tu 6:00pm - 6:50pm	Seats (Total: 45) ESJ 1202 ESJ 1202	 Lab

CPBE225 **Enterprise Communications**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: FSOC

Prerequisite: CPBE100. Restriction: Must be enrolled in College Park Scholars' Business, Society and the Economy (CPBE) program. Formerly: CPSP220.

Examines basic interpersonal communication processes within written and oral channels, with practical applications for the business environment.

0101	Ira Koretsky, David Rosenstein, Jessica Devine MW 11:00am - 12:15pm W 5:00pm - 6:50pm	Seats (Total: 37) SQH 1101 SQH 1120	 Lab
0102	David Rosenstein, Ira Koretsky, Jessica Devine MW 9:30am - 10:45am W 5:00pm - 6:50pm	Seats (Total: 36) SQH 1103 SQH 1120	 Lab

CPET College Park Scholars- Environment, Technology & Economy Fall 2018

CPET100 College Park Scholars: Environment, Technology & Economy First-Year Colloquium I

Credits: 1 Grading Method: Regular

Restriction: Students must be enrolled in the College Park Scholars Environment, Technology & Economy (CPET) program.

Introductory colloquium: Examination of issues related to the convergence of the environment, technology and the economy.

Class will meet in lecture OR discussion each week. For the first class meeting, both sections meet in LECTURE. Students will then be given schedule for semester.

0101	Marcella Kim, Lauren Gilmartin, Timothy Knight, Aya Gandolfo Tu 5:10pm - 6:30pm Tu 4:00pm - 4:50pm	Seats (Total: 37) TWS 0320 Location: TBA	 Discussion
0102	Timothy Knight, Marcella Kim, Aya Gandolfo, Lauren Gilmartin Tu 5:10pm - 6:30pm Tu 5:00pm - 5:50pm	Seats (Total: 37) TWS 0320 Location: TBA	 Discussion

0103	Marcella Kim, Lauren Gilmartin, Timothy Knight, Aya Gandolfo Tu 5:10pm - 6:30pm Tu 6:00pm - 6:50pm	Seats (Total: 36) TWS 0320 Location: TBA	Discussion

CPET200 **College Park Scholars: Environment, Technology & Economy Second-Year Colloquium**

Credits: 1 Grading Method: Regular

Prerequisite: CPET101. Restriction: Students must be enrolled in the College Park Scholars Environment, Technology & Economy (CPET) program.

Advanced colloquium: Continued examination of issues related to sustainable development.

0101	Lauren Gilmartin, Marcella Kim, Timothy Knight, Aya Gandolfo W 5:10pm - 6:30pm W 5:00pm - 5:50pm	Seats (Total: 35) CCC 1100 Location: TBA	Discussion
0102	Lauren Gilmartin, Marcella Kim, Timothy Knight, Aya Gandolfo W 5:10pm - 6:30pm W 6:00pm - 6:50pm	Seats (Total: 35) CCC 1100 Location: TBA	Discussion

CPGH College Park Scholars-Global Public Health Fall 2018

CPGH100 **College Park Scholars: Global Public Health First-Year Colloquium I**

Credits: 1 Grading Method: Regular

Restriction: Students must be enrolled in the College Park Scholars Global Public Health (CPGH) program.

Introductory colloquium: Examination of factors that determine the health status of populations around the world.

0101	Reva Datar, Abigail Bickford, Muhiuddin Haider W 3:00pm - 4:30pm	Seats (Total: 96) CCC 1100	

CPGH200 **College Park Scholars: Global Public Health Second-Year Colloquium**

Credits: 1 Grading Method: Regular General Education: DSSP

Prerequisite: CPGH101. Restriction: Students must be enrolled in the College Park Scholars Global Public Health (CPGH) program.

Building on knowledge and skills gained from the first-year colloquia, students will develop public health interventions that address a public health issue of a particular community.

0101	Reva Datar, Abigail Bickford, Muhiuddin Haider, Roohali Sukhavasi	Seats (Total: 95)
	Tu 2:00pm - 3:15pm	CCC 1100

CPJT College Park Scholars-Justice and Legal Thought Fall 2018

CPJT100 **College Park Scholars: Justice & Legal Thought: First-Year Colloquium**

Credits: 1 Grading Method: Regular

Restriction: Students must be enrolled in the College Park Scholars Justice & Legal Thought (CPJT) program.

Students will gain an experiential understanding of law and justice by investigating concepts and frameworks of justice and apply them to real-world experience.

0101	Robert Koulish, Erica Smith, James Cook	Seats (Total: 90)
	W 5:00pm - 6:15pm	CCC 1205

CPJT200 **Justice and legal Thought Second Year Colloquium**

Credits: 1 Grading Method: Regular

Restriction: Students must be enrolled in the College Park Scholars Justice and Legal Thought (CPJT) program. Additional information: When combined with the first year CPJT colloquia, students will learn how to research issues discussed and debated throughout year one.

Advanced colloquium for second year students related to research skill development

0101	Erica Smith	Seats (Total: 90)
	Th 2:00pm - 3:15pm	CCC 1100

CPMS College Park Scholars-Media, Self and Society Fall 2018

CPMS100 **College Park Scholars: Media, Self & Society First-Year Colloquium I**

Credits: 1 Grading Method: Regular

Restriction: Students must be enrolled in the College Park Scholars Media, Self & Society (CPMS) program.

Introductory colloquium: Examination of issues related to the media.

0101	Kalyani Chadha, Kelly Brower, Carolina Siqueira Paranhos Velloso Th 3:30pm - 4:50pm	Seats (Total: 90) CCC 1100

CPMS225 **Analyzing Media Practice through Theory**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHS, SCIS

Prerequisite: CPMS100. Restriction: Must be in the Scholars Media, Self & Society Program. Formerly: CPSP222.

Media analysis investigating patterns of ownership, the working of media organizations, patterns of coverage and the nature of audiences.

0101	Kalyani Chadha, Carolina Siqueira Paranhos Velloso TuTh 12:30pm - 1:45pm	Seats (Total: 90) CCC 1205

CPMS230 **College Park Scholars: Media, Self & Society - Internship Practicum**

Credits: 1-3 Grading Method: Regular

Prerequisite: CPMS101. Restriction: Students must be enrolled in the College Park Scholars Media, Self & Society (CPMS) program.

Supervised internship project in an area related to media, self and society.

0101	Kalyani Chadha Contact instructor or department for details.	Seats (Total: 10)

CPPL College Park Scholars-Public Leadership Fall 2018

CPPL100 **College Park Scholars: Public Leadership First-Year Colloquium I**

Credits: 1 Grading Method: Regular

Restriction: Students must be enrolled in the College Park Scholars Public Leadership (CPPL) program.

Introductory colloquium: Examination of issues related to public leadership.

0101	Ricco Hall Tu 5:00pm - 6:15pm	Seats (Total: 30) CCC 1111
0201	Ricco Hall Tu 6:30pm - 7:45pm	Seats (Total: 35) CCC 1111
0301	Ricco Hall W 5:00pm - 6:15pm	Seats (Total: 35) CCC 1111

CPPL200 **College Park Scholars: Public Leadership - Applied Leadership Capstone I**

Credits: 1 Grading Method: Regular

Prerequisite: CPPL101. Restriction: Students must be enrolled in the College Park Scholars Public Leadership (CPPL) program.

Planning and initiation of team, community-based-learning projects.

0101	Susannah Washburn W 3:00pm - 4:15pm	Seats (Total: 70) CCC 1205
0301	Susannah Washburn Contact instructor or department for details.	Seats (Total: 5)

CPSA College Park Scholars-Arts Fall 2018

CPSA100 **College Park Scholars: Arts First-Year Colloquium I**

Credits: 1 Grading Method: Regular

Restriction: Students must be matriculated into the College Park Scholars Arts (CPSA) program.

Introductory colloquium: Aesthetic, intellectual and personal examination of the arts.

0101	Kenna Hernly, Heather-Erin Bremenstuhl, Harold Burgess M 6:00pm - 7:15pm Contact instructor or department for details.	Seats (Total: 25) CCC 1100
0102	Kenna Hernly, Heather-Erin Bremenstuhl, Harold Burgess M 6:00pm - 7:15pm Contact instructor or department for details.	Seats (Total: 25) CCC 1100

0103	Kenna Hernly, Heather-Erin Bremenstuhl, Harold Burgess M 6:00pm - 7:15pm Contact instructor or department for details.	Seats (Total: 25) CCC 1100

CPSA149 **College Park Scholars: Arts Service-Learning Outreach**

Credits: 2 Grading Method: Regular

Service-Learning outreach to Prince George's County schools and non-profit agencies.

0101	Harold Burgess Th 5:00pm - 7:00pm	Seats (Total: 10) CCC 1115

CPSA200 **College Park Scholars: Arts Second-Year Colloquium I**

Credits: 1 Grading Method: Regular

Prerequisite: CPSA101. Restriction: Students must be matriculated into the College Park Scholars Arts (CPSA) program. Additional information: When paired with successful completion of CPSA 240, 250 or 260, students will earn General Education Scholarship-in-Practice credit.

Advanced colloquium I: Examination of the arts in society; and preparation for "Scholarship-in-Practice" project.

0101	Heather-Erin Bremenstuhl, Harold Burgess, Patricia Akinbola, Montserrat Cubillos Guzman Tu 6:00pm - 7:15pm Contact instructor or department for details.	Seats (Total: 22) CCC 1100
0102	Kenna Hernly, Heather-Erin Bremenstuhl, Harold Burgess Tu 6:00pm - 7:15pm Contact instructor or department for details.	Seats (Total: 22) CCC 1100
0103	Kenna Hernly, Heather-Erin Bremenstuhl, Harold Burgess Tu 6:00pm - 7:15pm Contact instructor or department for details.	Seats (Total: 22) CCC 1100

CPSD College Park Scholars-Science, Discovery & the Universe — Fall 2018

CPSD100 **College Park Scholars: Science, Discovery & the Universe First-Year Colloquium A**

Credits: 1 Grading Method: Regular

Restriction: Students must be enrolled in the College Park Scholars Science, Discovery & the Universe (CPSD) program. Additional information: Both freshman colloquia (CPSD 100 and 101) are required for students to earn their College Park Scholars citations; however, they can be taken in any order during a student's first year.

Introductory colloquium: Examination of issues related to science, discovery and the universe.

0101	Erin Thomson, Alan Peel	Seats (Total: 45)
	Th 3:30pm - 4:30pm	CCC 1111

CPSD101 **College Park Scholars: Science, Discovery & the Universe First-Year Colloquium B**

Credits: 1 Grading Method: Regular

Restriction: Students must be enrolled in the College Park Scholars Science, Discovery & the Universe (CPSD) program. Additional information: Both freshman colloquia (CPSD 100 and 101) are required for students to earn their College Park Scholars citations; however, they can be taken in any order during a student's first year.

Introductory colloquium: Examination of the intersection of astronomy and culture; and the roles of science, exploration and communication in the process of discovery.

0101	Erin Thomson, Alan Peel	Seats (Total: 45)
	Th 3:30pm - 4:30pm	CCC 1205

CPSD200 **College Park Scholars: Science, Discovery & the Universe Second-Year Colloquium**

Credits: 1 Grading Method: Regular

Prerequisite: CPSD100 and CPSD101. Restriction: Students must be enrolled in the College Park Scholars Science, Discovery & the Universe (CPSD) program.

Advanced colloquium: Continued examination of issues related to science, discovery and the universe.

0101	Erin Thomson, Alan Peel	Seats (Total: 85)
	Th 5:30pm - 6:30pm	CCC 1205

CPSF College Park Scholars-Life Sciences Fall 2018

CPSF100 **College Park Scholars: Life Sciences First-Year Colloquium I**

Credits: 1 Grading Method: Regular

Restriction: Students must be enrolled in the College Park Scholars Life Sciences (CPSF) program.

Introductory colloquium: Examination of issues related to the life sciences.

0101	Beth Parent	Seats (Total: 100)
	W 3:30pm - 5:30pm	PLS 1140

CPSG College Park Scholars-Science and Global Change Fall 2018

CPSG100 **College Park Scholars: Science & Global Change First-Year Colloquium I**

Credits: 1 Grading Method: Regular

Restriction: Students must be enrolled in the College Park Scholars Science & Global Change (CPSG) program.

Introductory colloquium: Examination of issues related to science and global change.

0101	Thomas Holtz	Seats (Total: 92)
	Tu 3:30pm - 4:50pm	CCC 1100

CPSG200 **College Park Scholars: Science & Global Change Second-Year Colloquium**

Credits: 1 Grading Method: Regular

Prerequisite: CPSG101. Restriction: Students must be enrolled in the College Park Scholars Science & Global Change (CPSG) program.

Advanced colloquium: Continued examination of issues related to science and global change.

0101	Thomas Holtz, John Merck	Seats (Total: 90)
	M 3:30pm - 4:50pm	CCC 1100

CPSN College Park Scholars-International Studies Fall 2018

CPSN100 **College Park Scholars: International Studies First-Year Colloquium I**

Credits: 2 Grading Method: Regular

Restriction: Students must be enrolled in the College Park Scholars International Studies (CPSN) program.

Introductory colloquium: Examination of issues related to international studies.

0101	James Glass, Margaret McWeeney, Robert Campana, Brandon Ives, Patrick O'Brien M 4:45pm - 6:45pm M 6:45pm - 8:00pm	Seats (Total: 25) ASY 2203 ASY 3211	Discussion
0102	James Glass, Margaret McWeeney, Robert Campana, Brandon Ives, Patrick O'Brien M 4:45pm - 6:45pm M 6:45pm - 8:00pm	Seats (Total: 22) ASY 2203 ASY 3217	Discussion
0103	James Glass, Patrick O'Brien, Brandon Ives, Robert Campana, Margaret McWeeney M 4:45pm - 6:45pm M 6:45pm - 8:00pm	Seats (Total: 25) ASY 2203 ASY 3221	Discussion
0104	James Glass, Margaret McWeeney, Patrick O'Brien, Brandon Ives, Robert Campana M 4:45pm - 6:45pm M 6:45pm - 8:00pm	Seats (Total: 22) ASY 2203 ASY 3203	Discussion

CPSN230 **College Park Scholars: International Studies - Internship Practicum**

Credits: 3 Grading Method: Regular

Prerequisite: CPSN101. Restriction: Students must be enrolled in the College Park Scholars International Studies (CPSN) program.

Supervised internship project in an area related to international studies.

0101	Instructor: TBA Contact instructor or department for details.	Seats (Total: 10)

CPSP College Park Scholars Program Fall 2018

CPSP218L **College Park Scholars Second-Year Colloquium I; Life Sciences**

(Perm req)

Credits: 1 Grading Method: Regular

Colloquium for specific College Park Scholars Program.

Restricted to College Park Scholars - Life Sciences. First lecture of the semester for all sections (including those listed as TBA) will meet on Tuesday, September 2nd, from 4pm-5pm. Location TBA.

0101	Tammatha O'Brien, Marcia Shofner Tu 4:00pm - 5:50pm	Seats (Total: 25) PLS 1119
0201	Reid Compton Th 4:00pm - 5:50pm	Seats (Total: 25) PLS 1146
0301	Reid Compton Tu 4:00pm - 5:50pm	Seats (Total: 25) PLS 1146
0401	Bonnie Dixon Th 4:30pm - 6:20pm	Seats (Total: 25) PLS 1119
0501	Beth Parent **Meets October 23, 2018 - December 4, 2018** Tu 4:00pm - 5:50pm	Seats (Total: 12) HBK 1108

CPSP239A **Practicum: Internship**

Credits: 1 Grading Method: Regular

Supervised internship in interest area related to the theme of the students' College Park Scholars program.

0101	Harold Burgess Contact instructor or department for details.	Seats (Total: 10)

CPSP239L **Practicum: Internship**

Credits: 1 Grading Method: Regular

Supervised internship in interest area related to the theme of the students' College Park Scholars program.

Contact department for information to register for this course.

CPSP239P **Practicum: Internship; Individual Practicum**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Supervised internship in interest area related to the theme of the students' College Park Scholars program.

0101	Instructor: TBA	Seats (Total: 5)
	Contact instructor or department for details.	

CPSP239S **Practicum: Internship**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Supervised internship in interest area related to the theme of the students' College Park Scholars program.

0101	Jennifer German	Seats (Total: 20)
	M 1:00pm - 1:50pm	CCC 1200

CPSP249L **Practicum: Service-Learning; Life Sciences**

Credits: 2 Grading Method: Regular

Supervised Service-Learning project in area related to the theme of the students' College Park Scholars program.

Restricted to College Park Scholars - Life Sciences.

0101	Beth Parent	Seats (Total: 20)
	Contact instructor or department for details.	

CPSP259I **Practicum: Research**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Supervised research project in interest area related to the students' College Park Scholars program.

Contact department for information to register for this course.

CPSP259J **Practicum: Research; Media, Self, and Society**

Credits: 1-2 Grading Method: Regular

Supervised research project in interest area related to the students' College Park Scholars program.

Restricted to students in College Park Scholars Media, Self, and Society Program

Contact department for information to register for this course.

CPSP259S **Practicum: Research**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Supervised research project in interest area related to the students' College Park Scholars program.

0101	Jennifer German	Seats (Total: 10)
	M 2:00pm - 2:50pm	CCC 1200

CPSP269B **Practicum: Peer Teaching**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Supervised peer teaching in students' College Park Scholars program.

Contact department for information to register for this course.

CPSP269E **Practicum: Peer Teaching**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Supervised peer teaching in students' College Park Scholars program.

Contact department for information to register for this course.

CPSP269F **Practicum: Peer Teaching**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Supervised peer teaching in students' College Park Scholars program.

Contact department for information to register for this course.

CPSP269N **Practicum: Peer Teaching**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Supervised peer teaching in students' College Park Scholars program.

Contact department for information to register for this course.

CPSP318B **College Park Scholars Special Topics; Business, Society and Economics**

(Perm req)

Credits: 1 Grading Method: Regular

Special Topics learning opportunities in College Park Scholars.

Contact department for information to register for this course.

CPSP318N **College Park Scholars Special Topics**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Special Topics learning opportunities in College Park Scholars.

Contact department for information to register for this course.

CPSP339 **Advanced Practicum: Internship**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Independent study designed for students who wish to extend in greater depth and detail projects begun in sophomore year. Subject varies. Overseen by faculty director or mentor.

Contact department for information to register for this course.

CPSP349T **Advanced Practicum: Service Learning; STS Infrastructure and Society S-L Project**

Credits: 3 Grading Method: Regular General Education: DSSP

Advanced supervised Service-Learning project.

0101	David Tomblin	Seats (Total: 20)
	TuTh 3:30pm - 4:45pm	CCC 1105

CPSP359B **Advanced Practicum: Research; Using Company Culture to Gain a Competitive Advantage**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Advanced supervised internship experience.

Contact department for information to register for this course.

CPSP359N **Advanced Practicum: Research**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Advanced supervised internship experience.

0101	Instructor: TBA	Seats (Total: 5)
	Contact instructor or department for details.	

CPSP369A **Advanced Practicum: Peer Teaching; Arts**

Credits: 1-3 Grading Method: Regular

Supervised advanced practicum in peer instruction.

Contact department for information to register for this course.

CPSP369D **Advanced Practicum: Peer Teaching; Science, Discovery, and the Universe**

Credits: 1-3 Grading Method: Regular

Supervised advanced practicum in peer instruction.

Contact department for information to register for this course.

CPSP369E **Advanced Practicum: Peer Teaching**

Credits: 2 Grading Method: Regular

Supervised advanced practicum in peer instruction.

Contact department for information to register for this course.

CPSP369G **Advanced Practicum: Peer Teaching**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Supervised advanced practicum in peer instruction.

Contact department for information to register for this course.

CPSP369L **Advanced Practicum: Peer Teaching; Life Sciences**

Credits: 1-3 Grading Method: Regular

Supervised advanced practicum in peer instruction.

Contact department for information to register for this course.

CPSP369N **Advanced Practicum: Peer Teaching; International Studies**

Credits: 1-3 Grading Method: Regular

Supervised advanced practicum in peer instruction.

Contact department for information to register for this course.

CPSP369P **Advanced Practicum: Peer Teaching; Public Leadership**

Credits: 1-3 Grading Method: Regular

Supervised advanced practicum in peer instruction.

Contact department for information to register for this course.

CPSP369T **Advanced Practicum: Peer Teaching; Science, Technology, and Society**

(Perm req)

Credits: 1-3 Grading Method: Regular

Supervised advanced practicum in peer instruction.

Contact department for information to register for this course.

CPSP388B **Advanced Special Topics in College Park Scholars; Business, Soc, Economics: Innovation**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Interdisciplinary topics of special interest to College Park Scholars, such as legacies of the cold war, environmental ethics, women in leadership, and other timely issues. Projects build on previous work in College Park Scholars.

Contact department for information to register for this course.

CPSP388E **Advanced Special Topics in College Park Scholars; Advanced Special Topics in College Park Scholars**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Interdisciplinary topics of special interest to College Park Scholars, such as legacies of the cold war, environmental ethics, women in leadership, and other timely issues. Projects build on previous work in College Park Scholars.

Independent study to allow continuation of Connection Project from CPET101.

Contact department for information to register for this course.

CPSS College Park Scholars-Science, Technology and Society — Fall 2018

CPSS100 **College Park Scholars: Science, Technology & Society First-Year Colloquium I**

Credits: 2 Grading Method: Regular

Restriction: Students must be enrolled in the College Park Scholars Science, Technology & Society (CPSS) program.

Introductory colloquium: Examination of issues related to science, technology and society.

0101	David Tomblin	Seats (Total: 16)	
	M 3:15pm - 4:50pm	CCC 1205	
	M 4:00pm - 4:50pm	CCC 1105	Discussion

0102	David Tomblin M 3:15pm - 4:50pm M 4:00pm - 4:50pm	Seats (Total: 16) CCC 1205 CCC 1111	Discussion
0103	David Tomblin M 3:15pm - 4:50pm M 4:00pm - 4:50pm	Seats (Total: 16) CCC 1205 CCC 1115	Discussion
0104	David Tomblin M 3:15pm - 4:50pm M 4:00pm - 4:50pm	Seats (Total: 16) CCC 1205 CCC 1200	Discussion
0105	David Tomblin M 3:15pm - 4:50pm M 4:00pm - 4:50pm	Seats (Total: 16) CCC 1205 CCC 1205	Discussion
0106	David Tomblin M 3:15pm - 4:50pm M 4:00pm - 4:50pm	Seats (Total: 15) CCC 1205 CBD 1140	Discussion

CPSS220 **The Culturally Competent Expert**

Credits: 3 Grading Method: Regular General Education: DVCC

Restriction: Must be in the College Park Scholars Science, Technology or Society program or have permission of the program.

How can scientists communicate their work effectively? The field of science communication ventures that the answer is not simply a matter of improving capacity (e.g., because people lack scientific information, scientists lack communication skills, or both). Rather, it calls for sustained collaboration and empathy between laypersons and experts. In this hands-on, experiential course, we use a model of cultural competency to put forth solutions to bridge the expert-lay divide. We investigate typical venues in which science is communicated (museums, YouTube videos, federal agency websites, and much much more) and study best practices for communication. Then we explore emerging venues that support sustained contact between so-called "lay citizens" and scientific or technical experts (dance/improv techniques, ethnographic methods and citizen science). Students learn to use cross-cultural perspectives as a basis to pilot and test ways of strengthening relationships and improving communication.

0101	Nicole Mogul TuTh 11:00am - 12:15pm	Seats (Total: 20) CCC 1111	

CPSS225 **College Park Scholars Capstone: Science, Technology, and Society**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, SCIS

Prerequisite: CPSS100. Restriction: Must be in the College Park Scholars Science, Technology & Society (CPSS) program. Formerly: CPSP227.

Exploration and understanding of ways science and technology shape and are shaped by society.

0101	Thomas Zeller TuTh 9:30am - 10:45am	Seats (Total: 20) CCC 1105
0201	Nicole Mogul TuTh 12:30pm - 1:45pm	Seats (Total: 20) CCC 1105

CPSS240 **College Park Scholars: Science, Technology & Society - Service-Learning Practicum**

Credits: 3 | Grading Method: Regular | General Education: DSSP, SCIS

Restriction: Matriculation into the College Park Scholars Science, Technology & Society (CPSS) program; or permission of instructor.

Supervised Service-Learning practicum in issues related to science, technology and society.

Most of the class times will be spent at area Prince George's schools with partnering robotics teams. Consult the class requirements and locations provided in the syllabus at the beginning of the class.

0101	Matthew Aruch TuTh 2:00pm - 3:15pm	Seats (Total: 10) CBD 1140
0201	Matthew Aruch TuTh 3:30pm - 4:45pm	Seats (Total: 25) CBD 1140

DANC Dance Fall 2018

DANC109 **Choreography I: Improvisation**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

An introduction to the process of spontaneous movement discovery involving solo and group movement experiences.

Prerequisite: by permission of department. Students must pay a $25.00 lab fee.

5501	Sara Pearson	Seats (Total: 20)	
	TuTh 11:00am - 12:15pm	PAC 1912	Lab

DANC128 **Fundamentals of Ballet**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Introduction to ballet technique and terminology for the beginning student.

Students must pay a $25 lab fee

5501	Stacey Carlson	Seats (Total: 20)
	TuTh 9:30am - 10:45am	PAC 1908

DANC138A **Global Dance Forms; Afro Jazz**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit , D

Movement course. Traditional dances and music of selected cultures.

Students must pay a $25 lab fee.

5501	Ronya Anderson	Seats (Total: 20)
	MW 11:00am - 12:15pm	PAC 1908

DANC138C **Global Dance Forms; Chinese Dance**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit , D

Movement course. Traditional dances and music of selected cultures.

Students must pay a $25 lab fee.

5501	Xinran Qi	Seats (Total: 20)
	MW 2:00pm - 3:15pm	PKT 2102

DANC138D **Global Dance Forms; Pilates and Conditioning**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit , D

Movement course. Traditional dances and music of selected cultures.

5501	Stacey Carlson TuTh 12:30pm - 1:45pm *Students must pay a $25 lab fee.*	Seats (Total: 20) PAC 1611	

DANC138P **Global Dance Forms; Hip Hop**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit , D

Movement course. Traditional dances and music of selected cultures.

Students must pay a $25 course fee.

5501	Ama Law TuTh 2:00pm - 3:15pm	Seats (Total: 25) PAC 1912	

DANC148 **Fundamentals of Modern Dance**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Introduction to modern dance with emphasis on the development of fundamental movement skills.

Students must pay a $25.00 lab fee.

5501	Christine Hands TuTh 11:00am - 12:15pm	Seats (Total: 20) PAC 1610	Lab
5502	Shawn Stone MW 12:30pm - 1:45pm	Seats (Total: 30) PAC 1908	Lab
5503	Amanda Fair TuTh 9:30am - 10:45am	Seats (Total: 30) PAC 1912	Lab
5504	Renee Gerardo TuTh 12:30pm - 1:45pm	Seats (Total: 30) PAC 1912	Lab

DANC179 **Movement Integration**

(Perm req)

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Conditioning and re-patterning techniques for achieving integrated movement.

Students must pay a $25.00 lab fee.

5501	Adriane Fang TuTh 2:00pm - 3:15pm	Seats (Total: 20) PAC 1611	Lab

DANC199 **Practicum in Choreography, Production and Performance I**

(Perm req)

Credits: 1-2 Grading Method: Regular, Pass-Fail, Audit

Choreography, production, and performance of student works, both on and off campus.

Contact department for information to register for this course.

DANC200 **Introduction to Dance**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HA, D General Education: DSSP

A study of dance as a form of communication and as an art form; a survey of the theories and styles of dance, and their relationships to other art forms.

0101	Crystal Davis TuTh 2:00pm - 3:15pm	Seats (Total: 50) MCB 1207
0201	Heidi McFall TuTh 12:30pm - 1:45pm	Seats (Total: 10) SYM 0215
0301	Ama Law, Ronya Anderson TuTh 11:00am - 12:15pm	Seats (Total: 25) SYM 0215
FC01	Susan Miller TuTh 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 25) PAC 3732

DANC200S **Introduction to Dance**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HA, D General Education: DSSP

A study of dance as a form of communication and as an art form; a survey of the theories and styles of dance, and their relationships to other art forms.

Restricted to College Park Scholars - Arts.

0201	Heidi McFall TuTh 12:30pm - 1:45pm	Seats (Total: 15) SYM 0215

DANC218 **Modern Dance I**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Development of heightened body awareness, breath support, dynamic alignment, and spatial awareness. Focus on rhythmic clarity and musicality.

Prerequisite: permission of department. Students must pay a $25.00 lab fee.

5501	Patrik Widrig	Seats (Total: 17)	
	MWF 9:00am - 10:50am	PAC 1912	Lab

DANC219 **Modern Dance II**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Continuation of the elements addressed in DANC218 with an added focus o momentum, the use of counter-tension, stability/mobility, suspension, and dynamic range.

Prerequisite: DANC218 and permission of department. Students must pay a $25.00 lab fee.

5501	Patrik Widrig	Seats (Total: 8)	
	MWF 9:00am - 10:50am	PAC 1912	Lab

DANC228 **Ballet I**

(Perm req)

Credits: 2

Grading Method: Regular, Pass-Fail, Audit

Barre and center work for alignment, strength, flexibility and coordination. Introduction to ballet terminology.

Prerequisite: permission of department. Students must pay a $25.00 lab fee.

5501	Amanda Fair	Seats (Total: 10)	
	TuTh 11:00am - 12:15pm	PAC 1908	Lab

DANC229 **Ballet II**

(Perm req)

Credits: 2

Grading Method: Regular, Pass-Fail, Audit

Continuation of DANC228.

Prerequisite: permission of department. Students must pay a $25.00 lab fee.

5501	Amanda Fair	Seats (Total: 10)	
	TuTh 11:00am - 12:15pm	PAC 1908	Lab

DANC299 **Practicum in Choreography, Production and Performance II**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Continuation of DANC199.

Contact department for information to register for this course.

DANC309 **Choreography III: Dance Composition**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Exploration of the structural elements of dance composition.

5501	Alvin Mayes	Seats (Total: 15)	
	MWF 11:00am - 12:20pm	PAC 1912	

DANC318 **Modern Dance III**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Continuation of the elements addressed in DANC219 with an added focus on off-verticality, spirals, complex level changes, more complex and extended phrasing, responsiveness to accompaniment, vocalization.

Prerequisite: DANC219 and permission of department. Students must pay a $25.00 lab fee.

5502	Alvin Mayes	Seats (Total: 11)	
	MWF 12:30pm - 2:20pm	PAC 1912	Lab

DANC319 **Modern Dance IV**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Continuation of the elements addressed in DANC318 with an added focus on movement subtlety and complexity, and stylistic demands.

Prerequisite: DANC318 and permission of department. Students must pay a $25.00 lab fee.

5501	Alvin Mayes MWF 12:30pm - 2:20pm	Seats (Total: 14) PAC 1912	Lab

DANC328 **Ballet III**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Execution of the vocabulary of ballet movement with technical accuracy.

5501	Mané Rebelo-Plaut TuTh 12:30pm - 1:45pm	Seats (Total: 10) PAC 1908

DANC329 **Ballet IV**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Continuation of DANC328.

5501	Mané Rebelo-Plaut TuTh 12:30pm - 1:45pm	Seats (Total: 10) PAC 1908

DANC386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Restriction: Junior standing or higher; and permission of ARHU-School of Theatre, Dance & Performance Studies department.

Contact department for information to register for this course.

DANC398 **Directed Studies in Dance**

(Perm req)

Credits: 1-6 Grading Method: Regular

0101	Patrik Widrig Contact instructor or department for details.	Seats (Total: 3)
0201	Sara Pearson Contact instructor or department for details.	Seats (Total: 3)
0301	Maura Keefe Contact instructor or department for details.	Seats (Total: 3)

0401	Alvin Mayes Contact instructor or department for details.	Seats (Total: 5)
0501	Paul Jackson Contact instructor or department for details.	Seats (Total: 3)
0601	Instructor: TBA Contact instructor or department for details.	Seats (Total: 3)
0701	Crystal Davis Contact instructor or department for details.	Seats (Total: 3)
0801	Instructor: TBA Contact instructor or department for details.	Seats (Total: 3)
0901	Instructor: TBA Contact instructor or department for details.	Seats (Total: 3)
1001	Adriane Fang Contact instructor or department for details.	Seats (Total: 3)

DANC398Y **Directed Studies in Dance; Movement, Mindfulness, and Self-Awareness**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Students must pay a $25 course fee.

5501	Shawn Stone TuTh 3:30pm - 4:45pm	Seats (Total: 25) PKT 2102

DANC399 **Practicum in Choreography, Production and Performance III**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Continuation of DANC299.

Prerequisite: DANC 299.

0101	Patrik Widrig Contact instructor or department for details.	Seats (Total: 5)
0201	Sara Pearson Contact instructor or department for details.	Seats (Total: 5)

0301	Maura Keefe Contact instructor or department for details.	Seats (Total: 5)	
0401	Alvin Mayes Contact instructor or department for details.	Seats (Total: 5)	
0501	Paul Jackson Contact instructor or department for details.	Seats (Total: 15)	
0601	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)	
0701	Crystal Davis Contact instructor or department for details.	Seats (Total: 5)	
0801	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)	
0901	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)	
1001	Adriane Fang Contact instructor or department for details.	Seats (Total: 15)	

DANC448 **Modern Dance V**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Complex phrases of modern dance movement with emphasis on articulation and expression.

Prerequisite: DANC349 and aududition. Students must pay a $25.00 lab fee.

5501	Kendra Portier MWF 9:00am - 10:50am	Seats (Total: 10) PAC 1908	 Lab

DANC449 **Modern Dance VI**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Continuation of DANC448.

Prerequisite: DANC 448 and permission from the department Students must pay a $25.00 lab fee.

5501	Kendra Portier MWF 9:00am - 10:50am	Seats (Total: 5) PAC 1908	Lab

DANC468 **Dance Repertory**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Form, content, music, design and performance of modern dance works.

Students must pay a $25 course fee.

5501	Kendra Portier TuTh 9:00am - 10:45am	Seats (Total: 12) PAC 1611

DANC488 **Project-Based Learning**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

A specific project, is addressed, in dance from the perspectives of the investigator, the creator/choreographer, and the performer. Projects are cross-disciplinary and/or cross-cultural, and may involve both on- and off-campus experiences.

Students must pay a $25.00 lab fee.

5501	Patrik Widrig TuTh 2:00pm - 3:50pm	Seats (Total: 15) PAC 1908

DANC499 **Practicum in Choreography, Production and Performance IV**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

Advanced workshop in dance presentation, including performing, production and planned field experiences.

Prerequisite: DANC 399.

0101	Patrik Widrig Contact instructor or department for details.	Seats (Total: 5)
0201	Sara Pearson Contact instructor or department for details.	Seats (Total: 5)

0301	Maura Keefe Contact instructor or department for details.	Seats (Total: 5)
0401	Alvin Mayes Contact instructor or department for details.	Seats (Total: 5)
0501	Paul Jackson Contact instructor or department for details.	Seats (Total: 15)
0601	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)
0701	Crystal Davis Contact instructor or department for details.	Seats (Total: 5)
0801	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)
0901	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)
1001	Adriane Fang Contact instructor or department for details.	Seats (Total: 15)

DANC600 **Graduate Dance Research**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of ARHU-School of Theatre, Dance & Performance Studies department.

Supervised writing of reports and articles on selected dance subjects. Study of library resources and interviewing techniques. Preparation for written documentation of thesis project.

0101	Maura Keefe Tu 9:00am - 11:45am	Seats (Total: 5) PAC 1924

DANC608 **Graduate Choreography I**

Credits: 3 Grading Method: Regular, Audit

Developing and defining individual choreographic voice and vision in a shared studio setting.

Prerequisite: Admission to MFA in Dance or permission of department. Students must pay a $25.00 lab fee. Developing and defining individual choreographic voice and vision in a s ared studio setting.

5501	Sara Pearson MWF 11:30am - 1:20pm	Seats (Total: 5) PAC 1610	Lab

DANC610 **Workshop in the Direction of Dance Production**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: DANC410; or students who have taken courses with comparable content may contact the department.

A lecture/laboratory course dealing with the relationship of the director to all of the activities involved in the presentation of a dance concert.

5501	Paul Jackson MW 12:30pm - 1:45pm	Seats (Total: 5) PAC 1924

DANC647 **Dance and Movement Practice**

(Perm req)

Credits: 2 Grading Method: Regular

Restriction: Permission of ARHU-School of Theatre, Dance & Performance Studies department.

Experiential studio work that generates common movement vocabulary and innovations of same in a shared, faculty-led exploration of movement for the purpose of generating vocabulary for technique, choreography, and pedagogy.

Students must pay a $25.00 lab fee.

5501	Patrik Widrig Contact instructor or department for details.	Seats (Total: 5)
5502	Sara Pearson Contact instructor or department for details.	Seats (Total: 5)
5504	Alvin Mayes Contact instructor or department for details.	Seats (Total: 5)
5507	Crystal Davis Contact instructor or department for details.	Seats (Total: 5)
5508	Adriane Fang Contact instructor or department for details.	Seats (Total: 5)

5510	Maura Keefe Contact instructor or department for details.	Seats (Total: 5)

DANC678 **Individual Movement Practice**

(Perm req)

Credits: 2 Grading Method: Regular

Students in consultation with the adviser, propose a specific movement practice and can select the practice from the range of technique offerings in the program. Additional work in documenting and providing evidence of growth towards individual outcomes is required.

0101	Patrik Widrig Contact instructor or department for details.	Seats (Total: 5)
0201	Sara Pearson Contact instructor or department for details.	Seats (Total: 5)
0301	Maura Keefe Contact instructor or department for details.	Seats (Total: 5)
0401	Alvin Mayes Contact instructor or department for details.	Seats (Total: 5)
0601	Kendra Portier Contact instructor or department for details.	Seats (Total: 5)
0701	Crystal Davis Contact instructor or department for details.	Seats (Total: 5)
1001	Adriane Fang Contact instructor or department for details.	Seats (Total: 5)

DANC679 **Graduate Dance Performance**

Credits: 1-3 Grading Method: Regular, Audit

An advanced performance course focusing on the restagings from noted scores of the choreographic works of significant artists in the field.

0101	Patrik Widrig Contact instructor or department for details.	Seats (Total: 5)
0201	Sara Pearson Contact instructor or department for details.	Seats (Total: 5)

0301	Maura Keefe Contact instructor or department for details.	Seats (Total: 5)
0401	Alvin Mayes Contact instructor or department for details.	Seats (Total: 5)
0501	Paul Jackson Contact instructor or department for details.	Seats (Total: 5)
0601	Maura Keefe Contact instructor or department for details.	Seats (Total: 5)
0701	Crystal Davis Contact instructor or department for details.	Seats (Total: 5)
0801	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)
1001	Adriane Fang Contact instructor or department for details.	Seats (Total: 5)

DANC689 **Special Topics in Dance**

Credits: 1-6 Grading Method: Regular, Audit

Special Topics in dance theory, research or creative projects.

Contact department for information to register for this course.

DANC689A **Special Topics in Dance; History, Aesthetics, Culture**

Credits: 3 Grading Method: Regular, Audit

Special Topics in dance theory, research or creative projects.

Also offered as THET608A. Credit only granted for DANC689A or THET608A. This seminar will investigate dance and performance as both a subject area and a mode of inquiry. We will investigate examples from contemporary choreography and performance, including a variety of concert and theatrical dance styles, and other movement practices. In conjunction with readings and discussions from dance history and theory, performance and cultural studies, we will consider different areas of the field of dance studies. We will address questions of subjectivity, location, audience, ommodification, conventionality, staging and the representation of ody politics. Students are expected to engage in critical viewing of dances and performances, conduct in-depth analyses of readings, participate in class discussions, give a presentation, and produce a final research paper.

0101	Maura Keefe W 1:30pm - 4:00pm	Seats (Total: 10) PAC 1815

DANC689M **Special Topics in Dance; Advanced Modern Technique I**

(Perm req)

Credits: 1 Grading Method: Regular, Audit

Special Topics in dance theory, research or creative projects.

Students must pay a $25 lab fee.

5501	Kendra Portier MWF 9:00am - 10:50am	Seats (Total: 5) PAC 1908

DANC689P **Special Topics in Dance; Graduate Dance Pedagogy**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Special Topics in dance theory, research or creative projects.

Students must pay a $25 lab fee. Must be enrolled in the MFA Dance degree.

5501	Crystal Davis Th 9:00am - 10:50am TuTh 2:00pm - 3:15pm	Seats (Total: 5) PAC 1924 MCB 1207

DANC689T **Special Topics in Dance; Advanced Modern Technique II**

(Perm req)

Credits: 1 Grading Method: Regular, Audit

Special Topics in dance theory, research or creative projects.

Students must pay a $25 lab fee.

5501	Kendra Portier MWF 9:00am - 10:50am	Seats (Total: 5) PAC 1908

DANC689W **Special Topics in Dance; MFA Thesis Writing Lab**

(Perm req)

Credits: 1 Grading Method: Regular, Audit

Special Topics in dance theory, research or creative projects.

Contact Instructor for meeting times.

0101	Maura Keefe Contact instructor or department for details.	Seats (Total: 4)

DANC698 Independent Study in Dance

Credits: 1-3 Grading Method: Regular, Audit

Directed independent study in theoretical topics.

0101	Patrik Widrig Contact instructor or department for details.	Seats (Total: 3)
0201	Sara Pearson Contact instructor or department for details.	Seats (Total: 3)
0301	Maura Keefe Contact instructor or department for details.	Seats (Total: 3)
0401	Alvin Mayes Contact instructor or department for details.	Seats (Total: 5)
0501	Paul Jackson Contact instructor or department for details.	Seats (Total: 3)
0601	Kendra Portier Contact instructor or department for details.	Seats (Total: 3)
0701	Crystal Davis Contact instructor or department for details.	Seats (Total: 3)
0801	Instructor: TBA Contact instructor or department for details.	Seats (Total: 3)
1001	Adriane Fang Contact instructor or department for details.	Seats (Total: 3)

DANC719 Graduate Choreography Projects

Credits: 3 Grading Method: Regular, Audit

Research-based choreographic projects in preparation for the choreographed thesis project.

Prerequisite: Admission to MFA in Dance or permission of department. Students must pay a $25.00 lab fee. Research-based choreographic projects in preparation for the choreographed thesis project.

5501	Kendra Portier MW 3:30pm - 5:30pm	Seats (Total: 5) PAC 1611

DANC777 **Internship in Dance**

(Perm req)

Credits: 6 Grading Method: Sat-Fail

Restriction: Must be admitted to MFA in Dance; or permission of ARHU-School of Theatre, Dance & Performance Studies department.

Internship in dance advocacy, administration, education, community building, choreography, or performance with an agency off campus and with a national or international profile.

0101	Patrik Widrig Contact instructor or department for details.	Seats (Total: 5)

DANC788 **Master's Tutorial for Choreography; Graduate Tutorial**

Credits: 1-3 Grading Method: Regular, Audit

Supervised production and presentation of a significant choreographic project.

0101	Patrik Widrig Contact instructor or department for details.	Seats (Total: 3)
0201	Sara Pearson Contact instructor or department for details.	Seats (Total: 3)
0301	Maura Keefe Contact instructor or department for details.	Seats (Total: 3)
0401	Alvin Mayes Contact instructor or department for details.	Seats (Total: 3)
0501	Paul Jackson Contact instructor or department for details.	Seats (Total: 3)
0601	Instructor: TBA Contact instructor or department for details.	Seats (Total: 3)

0701	Crystal Davis Contact instructor or department for details.	Seats (Total: 3)
0801	Instructor: TBA Contact instructor or department for details.	Seats (Total: 3)
1001	Adriane Fang Contact instructor or department for details.	Seats (Total: 3)

DANC799 **Master's Thesis Project**

Credits: 1-6 Grading Method: Regular, Sat-Fail

0101	Patrik Widrig Contact instructor or department for details.	Seats (Total: 5)
0201	Sara Pearson Contact instructor or department for details.	Seats (Total: 5)
0301	Maura Keefe Contact instructor or department for details.	Seats (Total: 3)
0401	Alvin Mayes Contact instructor or department for details.	Seats (Total: 3)
0501	Paul Jackson Contact instructor or department for details.	Seats (Total: 3)
0601	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)
0701	Crystal Davis Contact instructor or department for details.	Seats (Total: 3)
0801	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)
1001	Adriane Fang Contact instructor or department for details.	Seats (Total: 5)

EALL East Asian Languages and Literatures — Fall 2018

EALL300 **The Languages of East Asia**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit , D | General Education: DVUP

A survey of Chinese, Japanese, and Korean, and the languages of other East Asian nationalities. Provides a basic understanding of the structures of these languages. Topics covered include the characterizing features; the relationships of the languages to each other; the geographical, social, and historical settings. No knowledge of Asian languages is required. Taught in English.

0101	Samuel Ramsey MW 3:30pm - 4:45pm	Seats (Total: 30) JMZ 2206	

ECON Economics Fall 2018

ECON111 **Thinking Like an Economist**

Credits: 3 | Grading Method: Regular | General Education: DSHS, SCIS

Restriction: Sophomore standing or lower; or permission of BSOS-Economics department.

An introduction to the modes of thought of economics. Use of simple standard tools of economics to analyze important problems that arise frequently in public policy, the news media, and in daily life. An emphasis on how economists predict what choices societies make and how economists analyze whether those are good choices. Practical application of a variety of economic tools leading to a focus on the essential unity underlying these analytical tools, viewing economics as a discipline that applies a core methodology in different ways in different situations.

0101	Peter Murrell TuTh 2:00pm - 2:50pm F 9:00am - 9:50am	Seats (Total: 20) SHM 2102 LEF 1220	Discussion
0102	Peter Murrell TuTh 2:00pm - 2:50pm F 10:00am - 10:50am	Seats (Total: 20) SHM 2102 LEF 1220	Discussion
0103	Peter Murrell TuTh 2:00pm - 2:50pm F 11:00am - 11:50am	Seats (Total: 20) SHM 2102 LEF 1220	Discussion
0104	Peter Murrell TuTh 2:00pm - 2:50pm F 12:00pm - 12:50pm	Seats (Total: 20) SHM 2102 LEF 1220	Discussion

0105	Peter Murrell TuTh 2:00pm - 2:50pm F 1:00pm - 1:50pm	Seats (Total: 20) SHM 2102 LEF 1220	Discussion
0106	Peter Murrell TuTh 2:00pm - 2:50pm F 2:00pm - 2:50pm	Seats (Total: 20) SHM 2102 LEF 1220	Discussion
0201	Peter Murrell TuTh 11:00am - 12:15pm	Seats (Total: 20) TYD 1114	

ECON155 **Economics & the College Affordability Crisis**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS, SCIS

Additional information: No background in economics is required, although this course could be a nice complement for ECON200 and ECON201.

Why have tuition and fees increased substantially over the past 30 years at almost all institutions of higher education in the US? How can quality and productivity be measured in schools? Why do most students pay considerably less than the actual cost of service provision? What is society's interest in devoting considerable resources to education beyond the high school level? How do existing and proposed governmental policies impact both the number of students pursuing a college education and the cost of this education? ECON155 uses tools from economics to examine and explore answers to these and other related questions.

0101	Cindy Clement MW 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 30) TWS 1100 WDS 1114	Discussion
0201	Cindy Clement MW 11:00am - 11:50am F 12:00pm - 12:50pm	Seats (Total: 30) TWS 1100 WDS 1114	Discussion
0301	Cindy Clement MW 11:00am - 11:50am F 1:00pm - 1:50pm	Seats (Total: 30) TWS 1100 WDS 1114	Discussion

ECON175 **Inequality: Determinants and Policy Remedies**

Credits: 3 | Grading Method: Regular | General Education: DSHS, SCIS

Through most of the 20th century gaps in income between rich and poor declined in the US, but after 1970 we experienced a very rapid increase in inequality. This course challenges students to investigate why people make different amounts of money, why income inequality has risen so dramatically in recent years, what public policy tools exist to counter inequality increases, and what different institutional arrangements different countries use to lower inequality. This course will introduce students to theoretical tools used by economists to understand the sources of inequality and will also examine empirical evidence to better understand changes in the wage distribution and, more generally, in income distribution.

0101	Ethan Kaplan MW 2:00pm - 2:50pm F 9:00am - 9:50am	Seats (Total: 20) SHM 2102 JMZ 2125	 Discussion
0102	Ethan Kaplan MW 2:00pm - 2:50pm F 10:00am - 10:50am	Seats (Total: 20) SHM 2102 LEF 1221	 Discussion
0103	Ethan Kaplan MW 2:00pm - 2:50pm F 11:00am - 11:50am	Seats (Total: 20) SHM 2102 LEF 1222	 Discussion
0104	Ethan Kaplan MW 2:00pm - 2:50pm F 12:00pm - 12:50pm	Seats (Total: 20) SHM 2102 LEF 1221	 Discussion
0105	Ethan Kaplan MW 2:00pm - 2:50pm F 1:00pm - 1:50pm	Seats (Total: 20) SHM 2102 LEF 1221	 Discussion
0106	Ethan Kaplan MW 2:00pm - 2:50pm F 2:00pm - 2:50pm	Seats (Total: 20) SHM 2102 LEF 1221	 Discussion
0201	Ethan Kaplan MW 10:00am - 10:50am F 9:00am - 9:50am	Seats (Total: 20) TYD 2106 TYD 2110	 Discussion
0202	Ethan Kaplan MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 20) TYD 2106 TYD 0102	 Discussion

0203	Ethan Kaplan MW 10:00am - 10:50am F 11:00am - 11:50am	Seats (Total: 20) TYD 2106 TYD 0102	Discussion

ECON200 **Principles of Microeconomics**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS

Prerequisite: MATH107 or MATH110; or must have math eligibility of MATH113 or higher. Credit only granted for: ECON200, AREC240, or AREC250. Additional information: It is recommended that students complete ECON200 before taking ECON201.

Introduces economic models used to analyze economic behavior by individuals and firms and consequent market outcomes. Applies conceptual analysis to several policy issues and surveys a variety of specific topics within the broad scope of microeconomics.

0101	Erin Moody TuTh 9:30am - 10:45am	Seats (Total: 375) TYD 0130	
0201	Erin Moody TuTh 11:00am - 12:15pm	Seats (Total: 375) TYD 0130	
0301	Hossein Abbasi TuTh 12:30pm - 1:45pm	Seats (Total: 375) TYD 0130	
FC01	Hossein Abbasi MW 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 300) SKN 0200	

ECON201 **Principles of Macroeconomics**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS

Prerequisite: MATH107 or MATH110; or must have math eligibility of MATH113 or higher. Recommended: ECON200. Credit only granted for: ECON201 or ECON205.

An introduction to how market economies behave at the aggregate level. The determination of national income/output and the problems of unemployment inflation, will be examined, along with monetary and fiscal policy.

0101	John Neri MW 2:00pm - 3:15pm	Seats (Total: 300) TYD 0130	

0201	John Shea TuTh 2:00pm - 3:15pm	Seats (Total: 250) SKN 0200

ECON230 **Applied Economic Statistics**

Credits: 3 Grading Method: Regular

Prerequisite: Must have math eligibility of MATH113 or higher; or 1 course with a minimum grade of C- from (MATH107, MATH110). And minimum grade of C- in ECON200 and ECON201. Recommended: Students should already have basic familiarity with Microsoft Excel or similar spreadsheet software. Restriction: Must be in Economics Bachelor of Arts program. Credit only granted for: BIOM301, BMGT230, CCJS200, ECON230, ECON321, EDMS451, GEOG306, GEOL351, GVPT422, INST314, JOUR405, PSYC200 or SOCY201. (These courses do not necessarily meet the same major requirements-check with your advisor to see which of these courses will count for your major).

Introductory course to develop understanding of statistical concepts used in applied economics. Students will acquire skills needed to calculate and interpret statistical concepts, including descriptive statistics, probability, discrete and continuous distributions, sampling, point and interval estimations, hypothesis testing, basic analysis of variance, and simple linear regression models. Students will apply these concepts to data using both handheld calculators and spreadsheets(Excel), and students will be introduced to an econometric software package such as SPSS or SAS or R.

0101	Satyendra Verma MWF 10:00am - 10:50am	Seats (Total: 70) TYD 1102

ECON305 **Intermediate Macroeconomic Theory and Policy**

Credits: 3 Grading Method: Regular, Pass-Fail

Prerequisite: Minimum grade of C- in ECON201 and ECON200. And 1 course with a minimum grade of C- from (MATH120, MATH130, MATH136, MATH140); or must have completed MATH220 with a minimum grade of C-. Credit only granted for: ECON305 or ECON325.

Analysis of the determination of national income, employment, and price levels. Discussion of consumption, investment, inflation, and government fiscal and monetary policy.

0101	John Neri MWF 12:00pm - 12:50pm	Seats (Total: 200) HJP 0226
0201	Martina Copelman TuTh 9:30am - 10:45am	Seats (Total: 90) TWS 0320
0301	Martina Copelman TuTh 11:00am - 12:15pm	Seats (Total: 90) TWS 0320

ECON306 **Intermediate Microeconomic Theory & Policy**

Credits: 3 Grading Method: Regular, Pass-Fail

Prerequisite: 1 course with a minimum grade of C- from (ECON200, AREC250); and minimum grade of C- in ECON201. And 1 course with a minimum grade of C- from (MATH120, MATH130, MATH136, MATH140); or must have completed MATH220 with a minimum grade of C-. Credit only granted for: ECON306, ECON326, AREC489M, or AREC326.

Analysis of the theories of consumer behavior, producer behavior, different market structures, and various sources of inefficient outcomes. Analysis of microeconomic policies designed to improve market outcomes.

0101	Aaron Finkle MWF 9:00am - 9:50am	Seats (Total: 125) ESJ 1224
0201	Satyendra Verma MWF 12:00pm - 12:50pm	Seats (Total: 125) ESJ 1202
0301	Satyendra Verma MWF 1:00pm - 1:50pm	Seats (Total: 125) ESJ 1224

ECON311 **American Economic History Before the Civil War**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ECON200 and ECON201. Restriction: Must be in Economics Bachelor of Arts program.

Economic concepts are used to analyze various aspects of the founding and early history of the U.S., including the British settlement of the North American colonies, the economics of the American Revolutionary war, the writing of the Constitution, the development of financial markets, policies on public lands and the spread of western agriculture, slavery, banking, and early industrialization.

0101	John Wallis TuTh 9:30am - 10:45am	Seats (Total: 180) SHM 2102

ECON314 **Economic History, Development and Policy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ECON200 and ECON201.

Study abroad in the economic history, institutional development, and recent economic policy problems of selected areas.

Contact department for information to register for this course.

ECON315 **Economic Development of Underdeveloped Areas**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ECON200 and ECON201. Credit only granted for: ECON315 or ECON416.

Analysis of the economic and social characteristics of underdeveloped areas. Recent theories of economic development, obstacles to development, policies and planning for development.

SG91	Stefania Scandizzo MW 12:30pm - 1:45pm	Seats (Total: 50) BLD2 2062
	Restricted to BMGT-Shady Grove Seniors. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.	

ECON317 **Global Economic Policies**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ECON200 and ECON201. Restriction: Must be in Economics Bachelor of Arts program.

Analysis of policy options and debates on fostering economic growth and development in a global economy where national boundaries are no longer relevant. Topics covered will include real loanable funds markets in both local and international contexts during normal conditions and during financial crises, the design of trade and industrial policies, and the role of the World Bank, IMF, WTO, and other international agencies as well as regional and bilateral trade agreements. Emerging economies will be emphasized.

0101	Naveen Sarna TuTh 2:00pm - 3:15pm	Seats (Total: 40) TYD 0111
0201	Naveen Sarna TuTh 3:30pm - 4:45pm	Seats (Total: 40) TYD 0111
0301	Naveen Sarna TuTh 5:00pm - 6:15pm	Seats (Total: 40) TYD 0111

0401	Martina Copelman TuTh 2:00pm - 3:15pm	Seats (Total: 40) TYD 2111	

ECON321 **Economic Statistics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ECON201 and ECON200; and minimum grade of C- in MATH141. Recommended: STAT100. Restriction: Must be in Economics Bachelor of Science program. Credit only granted for: BIOM301, BMGT230, CCJS200, ECON230, ECON321, EDMS451, GEOG306, GEOL351, GVPT422, INST314, JOUR405, PSYC200 or SOCY201. (These courses do not necessarily meet the same major requirements-check with your advisor to see which of these courses will count for your major).

Introduction to the use of statistics in economics. Topics include: Probability, random variables and their distributions, sampling theory, estimation, hypothesis testing, analysis of variance, regression analysis and correlation.

0101	Alka Gandhi MWF 1:00pm - 1:50pm	Seats (Total: 40) TYD 2111	

ECON325 **Intermediate Macroeconomic Analysis**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ECON200, ECON201, and MATH141. Restriction: Must be in Economics Bachelor of Science program. Credit only granted for: ECON305 or ECON325.

Analysis of macroeconomic behavior and policy with emphasis on theoretical rigor. Topics include the determinants of economic growth, unemployment, inflation, and international economic flows.

0102	L Stevens MW 9:00am - 9:50am F 11:00am - 11:50am	Seats (Total: 30) SHM 2102 TYD 1114	Discussion
0103	L Stevens MW 9:00am - 9:50am F 12:00pm - 12:50pm	Seats (Total: 30) SHM 2102 TYD 1114	Discussion
0104	L Stevens MW 9:00am - 9:50am F 2:00pm - 2:50pm	Seats (Total: 30) SHM 2102 TYD 1114	Discussion

ECON326 **Intermediate Microeconomic Analysis**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ECON200, ECON201, and MATH141. Restriction: Must be in Economics Bachelor of Science program. Credit only granted for: ECON306, ECON326, AREC326, or AREC489M.

Analysis of economic decision-making by individual buyers and sellers, and resulting market outcomes, with emphasis on theoretical rigor. The efficient properties of perfect competition are examined, followed by consideration of market power, externalities, and asymmetric information.

0102	Melissa Kearney MW 2:00pm - 2:50pm F 11:00am - 11:50am	Seats (Total: 30) ESJ 2208 TYD 2111	 Discussion
0103	Melissa Kearney MW 2:00pm - 2:50pm F 12:00pm - 12:50pm	Seats (Total: 30) ESJ 2208 TYD 2111	 Discussion
0104	Melissa Kearney MW 2:00pm - 2:50pm F 2:00pm - 2:50pm	Seats (Total: 30) ESJ 2208 TYD 2111	 Discussion

ECON330 **Money and Banking**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ECON200 and ECON201.

The structure of financial institutions and their role in the provision of money and near money. Analysis of the Federal Reserve System, the techniques of central banks, and the control of supply of financial assets in stabilization policy. Relationship of money and credit to economic activity and the price level.

0101	John Neri MW 3:30pm - 4:45pm	Seats (Total: 300) SKN 0200	

ECON340 **International Economics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ECON200 and ECON201. Credit only granted for: ECON340 or ECON441.

Introduces economic models of international trade and finance. Analyzes policies designed to promote and restrict international trade and to manage exchange rates and impact international capital flows.

SG91	Stefania Scandizzo	Seats (Total: 80)
	MW 11:00am - 12:15pm	BLD2 2032
	Restricted to BMGT-Shady Grove Seniors. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.	

ECON358K **Special Topics in Study Abroad III; Spreadsheets and Data in Economics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ECON358L **Special Topics in Study Abroad III; Economics of Social Issues**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ECON358M **Special Topics in Study Abroad III; Financial Markets and Institutions**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ECON358N **Special Topics in Study Abroad III; History of Economic Thought**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ECON386 **Experiential Learning**

(Perm req)

Credits: 3 Grading Method: Sat-Fail

Prerequisite: ECON201 and ECON200. Restriction: Permission of BSOS-Economics department; and must be in a major within the BSOS-Economics department; and minimum cumulative GPA of 2.5; and junior standing or higher.

See Department Advising Office for course eligibility, course requirements, and application information.

Contact department for information to register for this course.

ECON387 **Career Preparation for Economics Majors**

Credits: 2 Grading Method: Regular

Prerequisite: 1 course with a minimum grade of C- from (ECON305, ECON325); and 1 course with a minimum grade of C- from (ECON306, ECON326); and 1 course with a minimum grade of C- from ECON400-499 course range. Restriction: Must be in one of the following programs (Economics Bachelor of Arts; Economics Bachelor of Science).

Increase student knowledge of career paths, job search tools, and strategies for successfully obtaining a job with a BA or BS in economics. Students will engage in a range of different activities which build their understanding of job opportunities in economics and hone their abilities to find positions they want. Students will reflect on specific skills employers seek from economics graduates and incorporate that knowledge in their own individual job search and career plan.

BL01	Stefania Scandizzo	Seats (Total: 20)	
	Meets August 27, 2018 - October 12, 2018		
	F 12:00pm - 1:50pm	TYD 0111	
	Class time/details on ELMs	ONLINE	Discussion

ECON396 **Independent Honors Study**

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Permission of BSOS-Economics department.

First semester of the departmental honors sequence. Students will develop and apply research skills required to carry out original research. By the end of the semester students will have produced a complete draft of an honors thesis resembling a scholarly journal article.

0101	Nolan Pope	Seats (Total: 15)
	TuTh 9:30am - 10:45am	TYD 1108

ECON397 **Honors Thesis**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ECON396. Restriction: Must be a candidate for honors in economics.

General supervision will be provided through assembled meetings with the professor in charge of the course.

Contact department for information to register for this course.

ECON398H **Topics in Economics; British Economy and Financial System**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

This course is designed to meet the changing interests of students and staff. Topics vary in response to those interests. Students are advised to seek information about the coverage and prerequisites during the registration period.

Contact department for information to register for this course.

ECON398L **Topics in Economics; The British Economy and Financial Systems**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

This course is designed to meet the changing interests of students and staff. Topics vary in response to those interests. Students are advised to seek information about the coverage and prerequisites during the registration period.

Contact department for information to register for this course.

ECON399 **Independent Study in Economics**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail

Integrated readings and independent study under direction and supervision of a faculty member. Contact department for additional information.

Permission of instructor must be arranged in advance. Open only to students who have previously earned 6 or more credits in upper division economics courses.

Contact department for information to register for this course.

ECON401 **Current Issues in American Economic Policy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (ECON305, ECON325); and 1 course with a minimum grade of C- from (ECON306, ECON326); and 1 course with a minimum grade of C- from (ECON424, ECON422). Restriction: Must be in Economics Bachelor of Arts program.

Analysis of current economic problems and public policies. Topics could include poverty, income inequality, social insurance, education, environmental sustainability, immigration, and innovation. Other issues may be substituted depending on current events.

0101	Erin Moody MW 10:30am - 11:45am	Seats (Total: 25) TYD 1132
0201	Daniel Kolliner TuTh 12:30pm - 1:45pm	Seats (Total: 25) TYD 1108
0301	Thomas Hegland TuTh 5:00pm - 6:15pm	Seats (Total: 25) TYD 0101

ECON402 **Macroeconomic Models and Forecasting**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (ECON305, ECON325); and 1 course with a minimum grade of C- from (ECON230, BMGT230, ECON321). Restriction: Must be in Economics Bachelor of Arts program.

Analysis of the fluctuations in economic activity and the formulation and use of forecasting models of the economy. Illustrations of computer macro models and forecasting problems.

0101	Sadik Aruoba MW 2:00pm - 3:15pm	Seats (Total: 49) TYD 2102

ECON406 **Advanced Microeconomics**

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in ECON326; and 1 course with a minimum grade of C- from (ECON321, STAT400). Restriction: Must be in Economics Bachelor of Science program.

Expands on the assumptions of rational decision-making used in intermediate microeconomics and develops more complicated, more realistic models which address uncertainty, intertemporal choices, strategic interactions, social preferences and considerations of what is fair.

0101	Erkut Ozbay TuTh 11:00am - 12:15pm	Seats (Total: 80) TYD 0117

ECON412 **Economic History and Modern Development**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ECON325 and ECON326. Restriction: Must be in Economics Bachelor of Science program.

Analysis of major economic, political, and social change in the developed world since 1800. This includes factors contributing to increases in economic performance, changes in the form of government, technological change (including industrialization), and integration and disintegration of the global economy. Emphasis is on institutional changes in how societies organize economic and political activities.

0101	Serguey Braguinsky MW 2:00pm - 3:15pm	Seats (Total: 38) TYD 1132

ECON414 **Game Theory**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (ECON306, ECON326); and 1 course with a minimum grade of C- from (ECON230, BMGT230, ECON321, STAT400). Restriction: Must be in one of the following programs (Economics Bachelor of Arts; Economics Bachelor of Science). Credit only granted for: CMSC474, ECON414, GVPT399A or GVPT390.

Studies the competitive and cooperative behavior that results when several parties find that their individual outcomes are jointly determined. Students will learn how to use game theory to analyze situations of potential conflict. Applications are drawn from economics, business, and political science.

0101	Robert Schwab TuTh 3:30pm - 4:45pm	Seats (Total: 90) SHM 2102
0201	Gustavo Saraiva MW 5:00pm - 6:15pm	Seats (Total: 38) TYD 0101
0301	Nebahat Erturk TuTh 5:00pm - 6:15pm	Seats (Total: 38) TYD 1132

ECON416 **Theory of Economic Development**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ECON325, ECON326, and ECON422. Restriction: Must be in Economics Bachelor of Science program. Credit only granted for: ECON315 or ECON416.

Analysis of the determinants and influences on economic development. Emphasis on both theoretical models and econometric methods of explaining why some countries are poor, along with examination of policies to promote development.

Contact department for information to register for this course.

ECON418L **Economic Development of Selected Areas; Latin America**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Economic and institutional characteristics of a specific geographic area are identified and discussed, and alternate strategies and policies for development are analyzed.

Prerequisite: 1 course with a minimum grade of C- from (ECON305, ECON325); and 1 course with a minimum grade of C- from (ECON230, BMGT230, ECON321). Restriction: Must be in Economics Bachelor of Arts program. Using examples from different historical and geographic contexts, students will analyze both the diversity and the commonalities of economic outcomes in Latin America, with an emphasis on institutional patterns. The class analyzes the divergence between North America and Latin America since the 1700s; surveys Latin America's economic history; reviews the region's recent economic experience with macroeconomic crises and their interaction with the political sphere; and explores current topics in the region's economic development, like the war on drugs and the rise of leftist policies.

0101	Mateo Uribe-Castro TuTh 9:30am - 10:45am	Seats (Total: 38) TYD 1132

ECON422 **Econometrics I**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (ECON325, ECON326); and 1 course with a minimum grade of C- from (STAT400, ECON321). Restriction: Must be in Economics Bachelor of Science program. Credit only granted for: ECON422, ECON424, AREC422, or AREC489F.

Emphasizes the interaction between economic problems and the assumption employed in statistical theory. Formulation, estimation, and testing of economic models, including single variable and multiple variable regression techniques, theory of identification, and issues relating to inference.

0101	Alka Gandhi MWF 10:00am - 10:50am	Seats (Total: 42) TYD 2102
0201	Alka Gandhi MWF 11:00am - 11:50am	Seats (Total: 42) TYD 2102

ECON423 **Econometrics II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ECON422. Restriction: Must be in Economics Bachelor of Science program.

Interaction between economic problems and specification and estimation of econometric models. Topics include issues of autocorrelation, heteroscedasticity, functional form, simultaneous equation models, qualitative choice models, and other computational methods.

0101	Jintae Kim TuTh 2:00pm - 3:15pm	Seats (Total: 38) TYD 2102
0201	Sergio Urzua MW 10:30am - 11:45am	Seats (Total: 38) TYD 0102

ECON424 **Applied Econometrics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (ECON305, ECON306, ECON325, ECON326); and 1 course with a minimum grade of C- from (ECON230, BMGT230, ECON321). Restriction: Must be in Economics Bachelor of Arts program. Credit only granted for: ECON422 or ECON424.

Provide the knowledge and skills necessary to accomplish and utilize basic applied econometric analysis utilized by many business service providers, government agencies, and nonprofits engaged in policy analysis. Topics include simple and multiple regressions using cross section, time series, and panel data, issues of heteroskedasticity, serial correlation, and multicollinearity, models with binary dependent variable, and program evaluation. Course emphasizes application of knowledge using software packages but still covers essential theoretical background.

0101	Hossein Abbasi TuTh 9:30am - 10:45am	Seats (Total: 38) TYD 2111
0201	Hossein Abbasi TuTh 11:00am - 12:15pm	Seats (Total: 38) TYD 2111
0301	Fo Aflagah TuTh 12:30pm - 1:45pm	Seats (Total: 38) TYD 2111
0401	Yue Chao MW 2:00pm - 3:15pm	Seats (Total: 38) TYD 2111

ECON425 **Mathematical Economics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (ECON305, ECON325); and 1 course with a minimum grade of C- from (ECON306, ECON326). Restriction: Must be in Economics Bachelor of Arts program.

Covers mathematical tools and skills utilized in upper undergraduate and master's level coursework in Economics and Public Policy. Reviews calculus and math of finance and growth. Introduces techniques of optimization, linear algebra, and differential equations and connects them to micro and macro theory and applications. Topics will also include coverage of probability theory to explore how economists model uncertainty, as well as economic applications of integration.

Contact department for information to register for this course.

ECON426 **Economics of Cost-Benefit Analysis**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (ECON305, ECON306, ECON325, ECON326); and 1 course with a minimum grade of C- from (ECON230, BMGT230, ECON321). Restriction: Must be in Economics Bachelor of Arts program.

Study of how to use cost benefit analysis and other similar tools of applied microeconomics to conduct policy analyses. Cost-benefit analysis is an empirical method of identifying an optimal choice from a set of policy alternatives, where optimal is defined in terms of economic efficiency. Real world examples are addressed, so that students understand limitations of the methods and also interactions of economic analysis with political and administrative processes.

0101	Olga Fetisova-Canas MW 3:30pm - 4:45pm	Seats (Total: 25) TYD 2102
0201	Gentry Johnson MW 5:30pm - 6:45pm	Seats (Total: 25) ESJ 2309
0301	Ephraim Leibtag Th 6:30pm - 9:00pm	Seats (Total: 25) TYD 2102

ECON435 **Financial Markets and the Macroeconomy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (ECON305, ECON325); and 1 course with a minimum grade of C- from (ECON306, ECON326); and 1 course with a minimum grade of C- from (ECON230, BMGT230, ECON321). Restriction: Must be in Economics Bachelor of Arts program; and must not have completed BMGT343. Credit only granted for: BMGT343 or ECON435. Additional information: Finance majors will not receive credit for ECON435.

The different types of financial assets that exist, the markets that they trade in, and the determination of their prices and rates of return are examined. Specific topics that will be covered include the Markowitz portfolio selection model, the capital asset pricing model, the arbitrage pricing theory, the efficient markets hypothesis, the term structure of interest rates, and options. There will be almost no emphasis on issues in corporate finance.

0101	Can Sever MWF 9:00am - 9:50am	Seats (Total: 38) TYD 2111
0201	Richard Stahnke TuTh 12:30pm - 1:45pm	Seats (Total: 38) TYD 0101

ECON442 **Globalization and Capital Markets**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ECON326 and ECON325; and 1 course with a minimum grade of C- from (ECON321, STAT400). Restriction: Must be in Economics Bachelor of Science program; and must not have completed ECON441. Credit only granted for: ECON441 or ECON442.

Uses models of open-economy macroeconomics to explain the causes and consequences of international capital flows. Analysis is made of private consumption, investment, the government sector, current accounts, the labor market, and the money and foreign exchange markets in small open economies. This framework is then used to study examples of how speculative attacks on currencies, sudden reversals of capital inflows, and the effects of the lack of credibility of economic policy affect economic development.

0101	Jintae Kim TuTh 9:30am - 10:45am	Seats (Total: 38) TYD 1114
0201	Jintae Kim TuTh 11:00am - 12:15pm	Seats (Total: 38) TYD 1132

ECON443 **International Trade and Trade Policy in the New Global Economy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (ECON305, ECON325); and 1 course with a minimum grade of C- from (ECON306, ECON326); and 1 course with a minimum grade of C- from (ECON230, BMGT230, ECON321). Restriction: Must be in Economics Bachelor of Arts program; and must not have completed ECON441. Credit only granted for: ECON441 or ECON443.

Examines the economics of international economic integration, including the theory of customs unions and free trade areas, the role of GATT and the WTO, changes in individual countries' foreign trade policies during the new era of globalization, the special role of multinational firms in world trade, and recent controversies about the benefits and costs of globalized trade.

0101	Richard Stahnke TuTh 3:30pm - 4:45pm	Seats (Total: 38) TYD 2102
0201	Richard Stahnke TuTh 5:00pm - 6:15pm	Seats (Total: 38) TYD 2102

ECON451 **Public Choice**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (ECON306, ECON326); and 1 course with a minimum grade of C- from (ECON230, BMGT230, ECON321). Restriction: Must be in Economics Bachelor of Arts program.

Analysis of collective decision making, economic models of government, program budgeting, and policy implementation; emphasis on models of public choice and institutions which affect decision making.

0101	Peter Coughlin MWF 10:00am - 10:50am	Seats (Total: 38) SQH 1101
0201	Peter Coughlin MWF 11:00am - 11:50am	Seats (Total: 38) SQH 1119
0301	Peter Coughlin MWF 1:00pm - 1:50pm	Seats (Total: 38) TYD 1101

ECON454 **Public Finance and Public Policy**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Minimum grade of C- in ECON326; and 1 course with a minimum grade of C- from (ECON321, STAT400). Restriction: Must be in Economics Bachelor of Science program.

The role of the the public sector in a market economy constitutes the over-arching topic of this course. Emphasis lies on analyzing government expenditure programs and the microeconomics of tax policy.

0101	Adam Isen TuTh 2:00pm - 3:15pm	Seats (Total: 38) ASY 3211

ECON456 **Law and Economics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (ECON306, ECON326); and 1 course with a minimum grade of C- from (ECON230, BMGT230, ECON321). Restriction: Must be in Economics Bachelor of Arts program.

Relationship of the exchange process to the system of institutions and rules that society develops to carry out economic transactions. Topics covered include: Property rights; torts, negligence, and liability; contracts and exchanges; criminal control and enforcement; equity and efficiency issues .

0101	Aaron Finkle MWF 12:00pm - 12:50pm	Seats (Total: 38) TYD 2102
0201	Aaron Finkle MWF 1:00pm - 1:50pm	Seats (Total: 38) TYD 2102

ECON458J **Special Topics in Study Abroad IV; Topics in Econometrics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ECON461 **Economics of Regulation and Anti-trust**

Credits: 3 Grading Method: Regular

Prerequisite: 1 course with a minimum grade of C- from (ECON306, ECON326); and 1 course with a minimum grade of C- from (ECON230, BMGT230, ECON321). Restriction: Must be in Economics Bachelor of Arts program.

Considers government intervention in economic activity of three types: antitrust policy, regulation of natural monopolies, and health safety regulation. Covers theoretical models, real-world policy applications, and empirical studies relevant to the impact of regulation.

0101	Cindy Clement	Seats (Total: 28)
	TuTh 11:00am - 12:15pm	TYD 2102

ECON462 **Economics of Entrepreneurship**

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in ECON422. Restriction: Must be in Economics Bachelor of Science program. Credit only granted for: ECON398O or ECON462. Formerly: ECON398O.

Economic theory highlights the role of entrepreneurs in fueling economic growth and accomplishing reallocation of resources in response to changes in preferences, technology, demographics, and resource. This course uses empirical evidence to examine the extent to which these predictions are valid. To more fully understand the motivations and constraints relevant to entrepreneurs, student will write a business plan as if s/he were starting a new business.

0101	Ryan Decker	Seats (Total: 24)
	M 6:00pm - 8:30pm	TYD 2111

ECON471 **Labor Markets**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (ECON306, ECON326); and minimum grade of C- in ECON424. Restriction: Must be in Economics Bachelor of Arts program. Credit only granted for: ECON470 or ECON471.

Central topics include the determinants of firms' demand for labor and households' decision making about whether to work, how much to work, and where to work. We will then study the equilibrium amount of labor hired in society and the wages paid to workers. The course will also include the measurement of the labor market, human capital, discrimination, incentives, and current changes in the American economic landscape. Various economic policies impacting labor markets will be analyzed.

0101	Nicholas Montgomery	Seats (Total: 38)
	MW 2:00pm - 3:15pm	TYD 1114

ECON472 **Economics of Social Safety Nets**

Credits: 3 Grading Method: Regular

Prerequisite: 1 course with a minimum grade of C- from (ECON306, ECON326); and minimum grade of C- in ECON424. Restriction: Must be in Economics Bachelor of Arts program.

Analysis of the economic issues associated with social safety nets. Topics to be covered include the cash transfer programs for breaking the cycle of poverty, labor market policies aimed at combating unemployment, childhood interventions to improve human capital development, and the challenges faced by pension systems over the world. The approach is based on a life-cycle perspective. Evidence and experiences from developed and developing countries will covered.

0101	Sergio Urzua	Seats (Total: 30)
	MW 9:00am - 10:15am	TYD 0102

ECON488K **Applied Market Research Practicum; Kaulkin Ginsberg Research Fellow**

(Perm req)

Credits: 2 Grading Method: Sat-Fail

Students gain experience applying economic knowledge and producing market research valued by businesses, non-profits, and/or government agencies. Students engage in activities similar to what an intern or entry-level employee would perform. Students work in small groups to find different kinds of data and facts, analyze and interpret this information, and use research findings to develop and present recommendations for simulated clients.

0101	Aaron Finkle, Michael Thomas	Seats (Total: 16)
	M 5:30pm - 7:30pm Contact instructor or department for details.	TYD 2102

ECON488L **Applied Market Research Practicum; Financial Literacy Outreach and Training**

(Perm req)

Credits: 1 Grading Method: Sat-Fail

Students gain experience applying economic knowledge and producing market research valued by businesses, non-profits, and/or government agencies. Students engage in activities similar to what an intern or entry-level employee would perform. Students work in small groups to find different kinds of data and facts, analyze and interpret this information, and use research findings to develop and present recommendations for simulated clients.

0101	Richard Stahnke	Seats (Total: 20)
	W 6:00pm - 7:30pm Contact instructor or department for details.	JMZ 0205

ECON488W **Applied Market Research Practicum; Wealth Management Fundamentals**

(Perm req)

Credits: 2 Grading Method: Sat-Fail

Students gain experience applying economic knowledge and producing market research valued by businesses, non-profits, and/or government agencies. Students engage in activities similar to what an intern or entry-level employee would perform. Students work in small groups to find different kinds of data and facts, analyze and interpret this information, and use research findings to develop and present recommendations for simulated clients.

0101	John Neri	Seats (Total: 20)
	W 5:00pm - 7:00pm Contact instructor or department for details.	KEY 0124

ECON490 **Urban & Regional Economics: Issues and Policies**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (ECON306, ECON326); and 1 course with a minimum grade of C- from (ECON321, BMGT230, ECON230). Restriction: Must be in Economics Bachelor of Arts program. Credit only granted for: ECON398I or ECON490. Formerly: ECON398I.

Exploration of urban and regional economics and policies, including economic forces leading to formation of city and regional networks. Conceptual and empirical analysis of policies affecting land use, housing, transportation and other aspects of sub-national economic development.

0201	Nicholas Montgomery	Seats (Total: 44)
	MWF 11:00am - 11:50am	TYD 1118

ECON498A **Special Topics in Economic Analysis; Economic and Social Policy Analysis**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected topics in economic analysis. Designed to meet the changing interests of students and staff.

Prerequisite: Minimum grade of C- in ECON326 and ECON422. Restriction: Must be in Economics Bachelor of Science program. Analysis of current economic and social policy issues, with an emphasis on evidence relevant to the evaluation of policy options. Topic areas may include poverty, education, immigration, environmental regulation, the tax code and others. Course will focus on the generation and assessment of evidence on the design and implementation of policies and programs in the selected topic areas.

0101	Katharine Abraham	Seats (Total: 20)
	MW 9:00am - 10:15am	TYD 1132

ECON499 **Independent Research in Economics**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail

Directed research under the supervision of a faculty member. Contact department for additional information.

Contact department for information to register for this course.

ECON601 **Macroeconomic Analysis I**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Restriction: Permission of BSOS-Economics department.

Introductory technical treatment of standard Keynesian, classical and new classical macroeconomic models. Expectations formation and microeconomic foundations of consumption, investment, money demand, and labor market behavior.

0101	John Shea, Allan Drazen	Seats (Total: 45)	
	MW 9:30am - 10:45am	TYD 1114	
	M 5:00pm - 6:45pm	TYD 1108	Discussion

ECON603 **Microeconomic Analysis I**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Restriction: Permission of BSOS-Economics department.

A detailed treatment of the theory of the consumer and of the firm, particularly emphasizing the duality approach. Topics include the household production model, imperfect competition, monopolistic and oligopolistic markets.

0101	Lawrence Ausubel, Emel Filiz Ozbay	Seats (Total: 50)	
	TuTh 2:00pm - 3:15pm	TYD 0102	
	Tu 5:15pm - 6:45pm	TYD 0102	Discussion

ECON616 **Economic Development II**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: ECON615, ECON603, and ECON604; or permission of BSOS-Economics department.

Survey of a variety of models explaining how market failures may lead to poverty and underdevelopment, with an emphasis on the empirical evaluation of constraints faced by individuals in developing countries and the programs that attempt to alleviate those constraints. Topics include: agricultural and land markets, labor markets, human capital in developing countries, credit markets, and consumption smoothing and risk coping.

0101	Jessica Goldberg	Seats (Total: 30)	
	MW 11:00am - 12:15pm	TYD 2111	

ECON623 **Econometrics I**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have advanced knowledge of probability, statistics, and linear algebra. Restriction: Permission of BSOS-Economics department.

Specification, estimation, hypothesis testing and prediction in the classical and generalized linear regression model. Topics include: ordinary least squares, generalized least squares, instrumental variableestimation, quantile regression, finite and large sample analysis and general testing principles including misspecification tests. The course will also provide instructions on the use of a major statistical packagesuch as Stata or TSP.

0101	John Chao	Seats (Total: 41)	
	TuTh 12:30pm - 1:45pm	TYD 2110	
	Th 5:15pm - 7:00pm	TYD 0102	Discussion

ECON626 **Empirical Microeconomics**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ECON624. Restriction: Must be in Economics (Doctoral) program.

To provide students with the opportunity to use empirical techniques that are particularly valuable in the analysis of microeconomic data. Topics include panel data, nonlinear optimization, limited dependent variables, truncated, censored, selected samples, the analysis of natural experiments, and quantile regressions. This course will emphasize hands-on practical experience.

0101	Guido Kuersteiner	Seats (Total: 23)	
	TuTh 11:00am - 12:15pm	TYD 2108	
	W 5:00pm - 6:15pm	TYD 2102	Discussion

ECON630 **Computational Methods in Macroeconomics**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Prerequisite: ECON602 and ECON601. Restriction: Must be in one of the following programs (Economics (Master's); Economics (Doctoral)) ; or permission of BSOS-Economics department.

Essential computational methods used in macroeconomics. There will be particular focus on approximating the solution to dynamic stochastic general equilibrium models. Methods for representative-agent and heterogeneous-agent models will be extensively studied. Econometric methods such as Generalized Method of Moments, Maximum Likelihood, Vector Autoregressions wil also be covered.

Beginning on Fri, October 23rd, students will need to attend an evening meeting from 5:30p-830p.

0101	Sadik Aruoba, Felipe Saffie	Seats (Total: 16)
	MW 11:00am - 12:15pm	TYD 0101

ECON635 **Experimental Economics**

Credits: 3

Grading Method: Regular, Audit

Restriction: Permission of instructor.

An introduction to the methodology of laboratory and field experiments. The course concentrates on a series of experiments to show how experiments build on one another, allowing researchers with different theoretical dispositions to narrow the range of potential disagreement.

0101	Erkut Ozbay	Seats (Total: 20)
	TuTh 2:00pm - 3:15pm	TYD 1108

ECON637 **Decision Theory**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Prerequisite: ECON603 and ECON604. Restriction: Must be in the Economics program; or must have completed ECON603 and ECON604 with a letter grade of B+ or better. Credit only granted for: ECON698B or ECON637. Formerly: ECON698B.

Decision making is a process in which we select a course of action among available options. This course will explore the various behavioral biases observed in decision making processes by adjusting our normative theories to capture these biases.

0101	Yusuf Masatlioglu	Seats (Total: 20)
	TuTh 12:30pm - 1:45pm	TYD 2109

ECON641 **Microeconomic Analysis**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in M.Prof.Studies: Applied Economics program; or permission of BSOS-Economics department. Credit only granted for: ECON641 or ECON506. Formerly: ECON506.

Microeconomic analysis applied to public policy problems with an emphasis on practical examples and how they illustrate microeconomic theories. Policy issues such as pollution, welfare and income distribution, market design, industry regulation, price controls, tax policy and health insurance are practical examples used to illustrate the abstract principles of microeconomics.

PCE1	Aaron Finkle	Seats (Total: 30)	
	Tu 6:30pm - 9:15pm	TYD 1118	
	Must be in Applied Economics-UMCP program. For permission to enroll, contact oes@umd.edu.		
PR01	Maksim Belenkiy	Seats (Total: 23)	
	Meets August 27, 2018 - November 16, 2018		
	Tu 6:45pm - 9:30pm Class time/details on ELMs	Location: TBA ONLINE	Discussion
	Must be in Applied Economics-WDC program. For permission to enroll, must be admitted into a term-based calendar graduate program. Contact oes@umd.edu. Class meets at 1400 16th Street NW., Washington, DC.		

ECON642 **Topics in Applied Macroeconomics**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in M.Prof.Studies: Applied Economics program; or permission of BSOS-Economics department.

Focus is on applied macroeconomic models used by federal agencies to explain and predict economic behavior. Course emphasizes macroeconomic data: NIPA accounts, GDP, construction and application of CPI, labor force data and economic indicators. Students will also study a selected set of current macroeconomic topics including models of economic growth, economic fluctuations, monetary policy, inflation and financial markets.

PCE1	Michael Barry	Seats (Total: 30)	
	Th 6:30pm - 9:15pm	TYD 2111	
	Must be in Applied Economics-UMCP program. For permission to enroll, contact oes@umd.edu.		

ECON643 **Empirical Analysis I: Foundations of Empirical Research**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: ECON643 or ECON521. Formerly: ECON521.

Fundamental aspects of data management and interpretation emphasizing sampling, descriptive statistics, index numbers and construction of aggregated variables. Students will learn probability theory, confidence intervals, hypothesis testing and regression analysis using the EXCEL spreadsheet program and STATA statistical software.

PCE1	John Straub	Seats (Total: 30)
	W 6:30pm - 9:15pm	TYD 2102
	Must be in Applied Economics-UMCP program. For permission to enroll, contact oes@umd.edu.	
PR01	Marina Miller	Seats (Total: 23)
	Meets August 27, 2018 - November 16, 2018	
	M 6:45pm - 9:30pm	Location: TBA
	Class time/details on ELMs	ONLINE Discussion
	Must be in Applied Economics-WDC program. For permission to enroll, must be admitted into a term-based calendar graduate program. Contact oes@umd.edu. Class meets at 1400 16th Street NW., Washington, DC.	

ECON645 **Empirical Analysis III: Econometric Modeling and Forecasting**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ECON644. Credit only granted for: ECON645 or ECON523. Formerly: ECON523.

Study of empirical techniques that are particularly relevant to the analysis of microeconomic models. Emphasis is on advanced panel data methods, time series regressions, instrumental variables, limited dependent variables, and sample selection corrections.

PCE1	Marquise McGraw	Seats (Total: 27)
	Tu 6:30pm - 9:15pm	TYD 2102
	Must be in Applied Economics-UMCP program. For permission to enroll, contact oes@umd.edu.	

PR01	Shanthi Ramnath	Seats (Total: 23)	
	Meets August 27, 2018 - November 16, 2018		
	Th 6:45pm - 9:30pm Class time/details on ELMs	Location: TBA ONLINE	Discussion

Must be in Applied Economics-WDC program. For permission to enroll, must be admitted into a term-based calendar graduate program. Contact oes@umd.edu. Class meets at 1400 16th Street NW., Washington, DC.

ECON652 **Public Economics I**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ECON604 and ECON624.

The characteristics and effects of government programs whose role is redistribution and social insurance are considered. Examples include cash welfare assistance, unemployment insurance, and Social Security. The focus is on U.S. programs, though other countries may be considered. Both theories of program design and empirical research on program effects will be covered. Topics in empirical methodology generally will also be stressed.

0101	Lesley Turner	Seats (Total: 30)
	MW 9:30am - 10:45am	TYD 0101

ECON662 **Theories of Industrial Organization**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ECON604 and ECON603.

Classical theories of industry organization are analyzed. Topics includ monopoly price discrimination, product differentiation and bundling as well as traditional oligopoly models of Cournot and Bertrand are examined. Dynamic models of oligopoly including entry deterrence and collusion are discussed in addition to games of research and development. Long-run industry structures and dynamics are also analyzed. Also investigates implications of these models for antitrust policy.

0101	Daniel Vincent	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	TYD 1108

ECON664 **Empirical Studies in Industrial Organization**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ECON603, ECON604, and ECON624. Credit only granted for: ECON664 or ECON698J. Formerly: ECON698J.

Review recent empirical literature in industrial organization. Covers price discrimination, cartel and collusion, entry and market structure, information and competition, technological change and adoption, auction, and firm organization.

0101	Ginger Jin	Seats (Total: 20)
	M 2:00pm - 4:45pm	TYD 2108

ECON670 **Financial Economics**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ECON641; and must have completed or be concurrently enrolled in ECON644. Restriction: Must be in M.Prof.Studies: Applied Economics program.

The course applies microeconomic theory and applied econometric techniques to the study of financial institutions and markets for financial assets. Students will learn how economists model and estimate the value of financial assets. The economic and empirical models are of interest to public policy makers and private wealth managers. Specific topics can include financial intermediation, the regulation of financial institutions, risk management, portfolio theory, the capital asset pricing model and the efficient markets hypothesis.

PR01	Lubomir Petrasek	Seats (Total: 23)	
	Meets August 27, 2018 - November 16, 2018		
	W 6:45pm - 9:30pm	Location: TBA	
	Class time/details on ELMs	ONLINE	Discussion
	Must be in Applied Economics-WDC program. For permission to enroll, must be admitted into a term-based calendar graduate program. Contact oes@umd.edu. Class meets at 1400 16th Street NW., Washington, DC.		

ECON671 **Economics of Health Care**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ECON641; and must have completed or be concurrently enrolled in ECON645. Credit only granted for: ECON671 or ECON565. Formerly: ECON565.

An examination of the structure, conduct and performance of the health care market, including a study of physician services, the pharmaceutical industry, the hospital market and health insurance. Extensive use of quantitative and analytic economic tools with special emphasis on regulatory response to market imperfections.

PCE1	Nathan Petek	Seats (Total: 27)
	W 6:30pm - 9:15pm	TYD 1108
	Must be in Applied Economics-UMCP program. For permission to enroll, contact oes@umd.edu.	

ECON673 **Information, Game Theory and Market Design**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ECON641; and must have completed or be concurrently enrolled in ECON644.

A study of the strategic decision-making and the theory and practice of market design. Focus is on the design of organized market and incentives created by market rules. Topics include online auction markets, government auctions procurement auctions and matching markets. The analysis includes documenting the rules of real-world markets, game theoretic analysis, empirical analysis, and experimental work.

PR01	David Ovadia	Seats (Total: 23)	
	Meets August 27, 2018 - November 16, 2018		
	Tu 6:45pm - 9:30pm	Location: TBA	
	Class time/details on ELMs	ONLINE	Discussion
	Must be in Applied Economics-WDC program. For permission to enroll, must be admitted into a term-based calendar graduate program. Contact oes@umd.edu. Class meets at 1400 16th Street NW., Washington, DC.		

ECON675 **Environmental Economics**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ECON641; and must have completed or be concurrently enrolled in ECON645.

A study of the nature of environmental regulation focusing on U.S. environmental policies and policy debates.

PCE1	Hong Kim	Seats (Total: 27)
	M 6:30pm - 9:15pm	TYD 1101
	Must be in Applied Economics-UMCP program. For permission to enroll, contact oes@umd.edu.	

ECON676 **Economic Development**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ECON641; and ECON642; and must have completed or be concurrently enrolled in ECON644. Restriction: Must be in M.Prof.Studies: Applied Economics program.

Analysis of economic development. The course will focus on the consequences of poverty and poor institutions for the behavior and welfare of individuals, households, firms and the aggregate economy in developing countries. Theoretical models and empirical evidence will be used to understand the intended and unintended consequences of policies designed to enhance economic development.

PR01	Jonathan Rose, Oscar Mitnik	Seats (Total: 23)	
	Meets August 27, 2018 - November 16, 2018		
	M 6:30pm - 9:45pm Class time/details on ELMs	Location: TBA ONLINE	Discussion
	Must be in Applied Economics-WDC program. For permission to enroll, must be admitted into a term-based calendar graduate program. Contact oes@umd.edu. Class meets at 1400 16th Street NW., Washington, DC.		

ECON683 International Macroeconomics and Finance

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ECON641 and ECON642; and must have completed or be concurrently enrolled in ECON644. Restriction: Must be in M.Prof.Studies: Applied Economics program.

Economic analysis of international macroeconomic issues and policy. Topics can include the study of exchange rates, balance of payments, international financial markets, international business cycles, contagion, and the roles played by international economic institutions.

PCE1	Mahsa Agha Gholizadeh	Seats (Total: 27)
	Th 6:30pm - 9:15pm	TYD 0111
	Must be in Applied Economics-UMCP program. For permission to enroll, contact oes@umd.edu.	

ECON698 Selected Topics in Economics

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Contact department for information to register for this course.

ECON701 Advanced Macroeconomics I

Credits: 3

Grading Method: Regular, Audit

Prerequisite: ECON602 and ECON601.

Recent developments in macroeconomics with an emphasis on topics and techniques useful for conducting research in macroeconomics. Topics include advanced treatment of fiscal and monetary policy issues; the role of imperfect competition; real, sectoral and nominal business cycle models.

0101	John Haltiwanger MW 9:30am - 10:45am	Seats (Total: 25) TYD 0111

ECON703 **Advanced Microeconomics I**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: ECON604 and ECON603.

Formal treatment of game theory and its microeconomic applications are presented, emphasizing dynamics and information. Equilibrium concepts for static and dynamic games, and games with complete and incomplete information are studied. Topics also discussed: mechanism design, efficiency, reputations, signaling, and screening.

0101	Hector Lopez Carbajal F 9:00am - 12:00pm	Seats (Total: 30) VMH 1203

ECON708 **Advanced Topics in Applied and Theoretical Microeconomics**

(Perm req)

Credits: 2

Grading Method: Regular, Audit

Read, discuss, and analyze current topics in microeconomics, including public economics, environmental economics, labor economics, industrial economics, microeconomic theory, public choice and international trade. Specific topics covered will change from semester to semester depending on the students' and faculty's interests. Intended primarily for students beginning thesis research in economics.

0601	Nolan Pope MW 12:30pm - 1:45pm	Seats (Total: 5) Location: TBA
2901	Yusuf Masatlioglu MW 12:30pm - 1:45pm	Seats (Total: 5) Location: TBA
4401	Sebastian Galiani MW 12:30pm - 1:45pm	Seats (Total: 5) TYD 0111

5501	Ginger Jin MW 12:30pm - 1:45pm	Seats (Total: 5) Location: TBA

ECON709 **Advanced Topics in Applied and Theoretical Macroeconomics**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Read, discuss, and analyze current topics in macroeconomics, including asset pricing models, models of economic growth, investment, and the labor market. Specific topics covered will change from semester to semester depending on the students' and faculty's interests. Intended primarily for students beginning thesis research in economics.

0101	Sadik Aruoba TuTh 12:30pm - 1:45pm	Seats (Total: 5) TYD 0102
0301	Allan Drazen TuTh 12:30pm - 1:45pm	Seats (Total: 5) Location: TBA
0401	Eunhee Lee TuTh 12:30pm - 1:45pm	Seats (Total: 5) Location: TBA
4101	Felipe Saffie TuTh 12:30pm - 1:45pm	Seats (Total: 5) Location: TBA

ECON721 **Econometrics III**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ECON624; or permission of BSOS-Economics department.

Oriented towards macro-econometric methods. Topics covered will be selected from the following: Further discussion of topics covered in ECON624, nonlinear time series models, exogeneity and causality, non-stationary time series models (unit roots, co-integration, error correction models, vector autoregressive models), econometric models of volatility (ARCH and GARCH models, and Stochastic volatility models), rational expectations models, non-stationary panel data models, tests for structural change, Bayesian econometrics and methods for Bayesian computation.

0101	John Chao TuTh 5:00pm - 6:15pm	Seats (Total: 20) TYD 2108

ECON741 **Advanced International Economics I**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: ECON601; or permission of BSOS-Economics department.

Exchange rate determination; exchange rate regimes; international monetary reform; policy conflict and cooperation; the LDC debt problem; pricing of international assets; balance of payments crises.

0101	Felipe Saffie	Seats (Total: 20)
	TuTh 9:30am - 10:45am	TYD 2110

ECON754 **Topics in Political Economy I**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: ECON602 and ECON604; or permission of BSOS-Economics department.

Study of political determinants of macroeconomic outcomes. Time inconsistency in monetary and fiscal policy, political business cycles. Political models of redistribution, delay in reform, transition, growth, and international policymaking.

0101	Allan Drazen	Seats (Total: 20)
	Contact instructor or department for details.	

ECON771 **Advanced Labor Economics: Theory and Evidence**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: ECON603 and ECON624; or permission of BSOS-Economics department.

Modern analytical and quantitative labor economics. Labor supply decisions of individuals and households; human capital model and distribution of income. Demand for labor; marginal productivity theory, imperfect information and screening. Interaction of labor demand and supply; unemployment; relative and absolute wages; macroeconomic aspects of the labor market.

0101	Judith Hellerstein	Seats (Total: 11)
	TuTh 2:00pm - 3:15pm	KEY 0124

ECON785 **Advanced Economics of Natural Resources**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: ECON603, ECON604, and ECON624.

The use of exhaustible and renewable natural resources from normative and positive points of view. Analysis of dynamic resource problems emphasizing energy, mineral, groundwater, forestry, and fishery resources; optimal, equilibrium, and intergenerational models of resource allocation.

Also offered as AREC785. Credit will be granted for one of the following: AREC785 or ECON785.

0101	Jorge Holzer Bilbao, James Archsmith MW 12:30pm - 1:45pm	Seats (Total: 28) EGR 2154

ECON799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

ECON808 **Workshop on Macroeconomics, International Macroeconomics and International Finance; Workshop in Applied Economics**

Credits: 2 Grading Method: Sat-Fail, Audit

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0101	Sadik Aruoba W 3:30pm - 5:30pm	Seats (Total: 10) TYD 2110
1301	Eunhee Lee W 3:30pm - 5:30pm	Seats (Total: 10) TYD 2110
3501	Felipe Saffie W 3:30pm - 5:30pm	Seats (Total: 10) TYD 2110

ECON828 **Workshop in Econometrics**

Credits: 2 Grading Method: Sat-Fail, Audit

Current research in econometrics. Topics drawn from theoretical and applied econometrics. Special topics include: maximum likelihood and generalized method of moments estimation of linear and non-linear models, analysis of stationary and non-stationary time series, cross section time series estimation, spatial estimation mehtods, Bayesian methods, semi-and non-parametic methods, rational expectations models, numerical methods, and various applications.

0101	John Chao M 3:30pm - 5:00pm	Seats (Total: 20) Location: TBA

ECON848 **Workshop in International Trade, Institutional Economics and Political Economy**

Credits: 2 Grading Method: Sat-Fail, Audit

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2102	Peter Murrell M 3:30pm - 5:30pm	Seats (Total: 20) TYD 2110

ECON868 **Workshop in Industrial Organization, Microeconomic Theory and Behavioral and Experimental Economics**

Credits: 2 Grading Method: Sat-Fail, Audit

Workshops designed to provide a structured environment for our faculty and graduate students to meet regularly to discuss and present their research ideas.

2901	Yusuf Masatlioglu Tu 3:30pm - 5:30pm	Seats (Total: 20) TYD 1108
4701	Ginger Jin Tu 3:30pm - 5:30pm	Seats (Total: 20) Location: TBA

ECON878 **Workshop in Development, Labor and Public Economics**

Credits: 2 Grading Method: Sat-Fail, Audit

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0601	Jessica Goldberg Th 3:30pm - 5:30pm	Seats (Total: 10) TYD 1118
5801	Sebastian Galiani Th 3:30pm - 5:30pm	Seats (Total: 10) Location: TBA

ECON898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

ECON899 **Doctoral Dissertation Research**

(Perm req) Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

EDCI Curriculum and Instruction Fall 2018

EDCI474 **Teaching Academically, Culturally, and Linguistically Diverse Students in Secondary Education**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Corequisite: Enrolled in internship/certification area. Restriction: Must be in one of the following programs (Secondary Educ: Science; Secondary Educ: English Language Arts; Secondary Educ: Mathematics; Secondary Educ: Foreign Languages; Secondary Educ: Social Studies; Secondary Educ: Art) ; and minimum cumulative GPA of 2.75. Or permission of EDUC-Teaching, Learning, Policy and Leadership department.

Multi-disciplinary capstone course for Secondary Education majors. Discussion of pedagogical and content issues relevant for teaching academically, culturally, and linguistically diverse students with particular emphasis on students with special educational needs and English language learners. Students develop and use curriculum-based assessments and/or lessons with these groups of students.

0101	Christina Budde	Seats (Total: 0)
	Tu 9:15am - 10:00am	EDU 2101
	Th 9:15am - 10:00am	EDU 3236
	Contact instructor or department for details.	

EDCP Education Counseling and Personnel Services Fall 2018

EDCP104 **Diversity Exploration and Academic Strategies**

(Perm req) Credits: 1 Grading Method: Regular

Additional information: Enrollment is for first-year students enrolled in the College Success Scholars program.

Designed to assist first semester students enrolled in the College Success Scholars program through an introduction to the academic environment, acclimation of campus resources, assistance in skill development and academic strategies, appreciation of cultural diversity as well as awareness of social identities for achieving positive personal, academic and professional outcomes.

0101	Christopher Lester	Seats (Total: 40)
	W 6:00pm - 7:50pm	HBK 0302H

EDCP107 **Diversity Issues: College Academic Advancement and Career Exploration**

Credits: 1 Grading Method: Regular

Repeatable to 1 credits. Additional information: This course is primarily designed for 1st and 2nd-year students enrolled at the University of Maryland (UMD) and want to learn effective academic strategies and career explorations.

Designed to enable undergraduate students to foster To foster positive attitudes and behaviors that will improve their academic success at the University of Maryland, College Park,teach students effective interpersonal skills and academic behaviors needed to succeed in higher education, encourage students to participate in career exploration as an essential part of the acquisition of a college education, establish the Nyumburu Cultural Center as a place where students can receive assistance in social, academic, and cultural areas, assist students in the understanding and development of attitudes that can facilitate scholarly engagements, understand student activism, scholarly participation, and cultural involvement as visions for academic excellence.

0101	Solomon Comissiong, Ronald Zeigler M 10:00am - 10:50am	Seats (Total: 25) NCC 0120

EDCP108I College and Career Advancement: Concepts and Skills; Academic Transitions to Internships

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Knowledge and skills designed to enhance college as a learning experience or preparation for life.

Restricted to students with less than 105 cumulative credits. Recommended for students who have never had an internship and are actively searching for one. Students participating in this course will engage in the full experience of searching for an internship Course registration is closed to graduating seniors.

0101	Erica Ely **Meets August 27, 2018 - October 12, 2018** Class time/details on ELMs	Seats (Total: 30) ONLINE
0201	Erin Rooney-Eckel **Meets August 27, 2018 - October 12, 2018** Class time/details on ELMs	Seats (Total: 30) ONLINE
0301	Natalie Sullivan **Meets October 22, 2018 - December 8, 2018** Class time/details on ELMs	Seats (Total: 30) ONLINE

0401	Maria Bowman **Meets October 22, 2018 - December 8, 2018** Class time/details on ELMs	Seats (Total: 30) ONLINE
0501	Erin Rooney-Eckel **Meets October 22, 2018 - December 8, 2018** Class time/details on ELMs	Seats (Total: 30) ONLINE
0601	Erin Rooney-Eckel **Meets August 27, 2018 - October 12, 2018** Class time/details on ELMs *This section is restricted to ECON students only.*	Seats (Total: 30) ONLINE
0701	Erin Rooney-Eckel **Meets October 22, 2018 - December 8, 2018** Class time/details on ELMs *This section is restricted to CMNS students only.*	Seats (Total: 30) ONLINE
0801	Erin Rooney-Eckel **Meets August 27, 2018 - October 12, 2018** Class time/details on ELMs *Restricted to CIVICUS students only.*	Seats (Total: 16) ONLINE

EDCP210 **Peer Counseling Skills and Mental Health Advocacy**

Credits: 3 Grading Method: Regular General Education: DSSP

Restriction: Must not have completed EDCP310; and must not have completed PSYC433. Credit only granted for: EDCP210, EDCP310, or PSYC433.

Introduction to core helping skills in peer counseling settings and three predominant theoretical approaches used in the counseling field (humanistic, psychodynamic, cognitive-behavioral). The course also explores mental health stigma and advocacy. Students will build an understanding of the practical application of underlying principles and theory in counseling and the helping professions, while exploring their own, and societal, biases, assumptions, and attitudes toward mental health.

0101	Gabriella Estevez MW 11:00am - 12:15pm	Seats (Total: 18) EDU 3233
0201	Kathryn Sullivan TuTh 2:00pm - 3:15pm	Seats (Total: 18) JMZ 2122
0301	Justin Hillman TuTh 2:00pm - 3:15pm	Seats (Total: 18) EDU 1121
0401	Kelsey McCurdy MW 1:00pm - 2:15pm	Seats (Total: 18) KEY 0119
0501	Leyla Babaturk TuTh 10:00am - 11:15am	Seats (Total: 18) VMH 1107
0701	Ruogu Wang MW 10:00am - 11:15am	Seats (Total: 18) SQH 1105
0801	Kathryn Kline MW 3:00pm - 4:15pm	Seats (Total: 18) JMZ 1120

EDCP298 **Special Problems in Counseling and Personnel Services**

Credits: 1-3 Grading Method: Regular, Pass-Fail

Individual instruction in special problems related to counseling, student leadership, and college student development.

Contact department for information to register for this course.

EDCP298Z **Special Problems in Counseling and Personnel Services; British Life and Society in a Cross-Cultural Context**

Credits: 3 Grading Method: Regular, Pass-Fail

Individual instruction in special problems related to counseling, student leadership, and college student development.

Contact department for information to register for this course.

EDCP386 **Experiential Learning**

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Permission of EDUC-Counseling, Higher Education and Special Education department; and sophomore standing or higher.

Special EDCP form required.

Contact department for information to register for this course.

EDCP489 **Field Experiences in Counseling and Personnel Services**

(Perm req)

Credits: 1-4 Grading Method: Regular General Education: DVUP

Planned field experience in education-related activities. Credit not to be granted for experiences accrued prior to registration.

Contact department for information to register for this course.

EDCP498 **Special Problems in Counseling and Personnel Services**

(Perm req)

Credits: 1-3 Grading Method: Regular

Available only to major students who have formal plans for individual study of approved problems.

Contact department for information to register for this course.

EDCP610 **Professional Orientation**

Credits: 3 Grading Method: Regular, Audit

Survey of knowledge base and practices in counseling and personnel services specializations, professional ethics, credentialling relevant legislation, current issues.

For Student Affairs students only.

0101	Michelle Espino Th 9:00am - 11:50am *Limited to Student Affairs graduate students.*	Seats (Total: 20) EDU 2101
0201	Natasha Mitchell M 4:15pm - 7:00pm *Limited to School Counseling Students.*	Seats (Total: 20) EDU 3236

EDCP614 **Counseling Skills: Introduction to Practicum**

Credits: 3 Grading Method: Regular, Audit

Corequisite: EDCP616.

Development and utilization of counseling skills.

0101	Matthew Miller	Seats (Total: 35)
	Tu 1:00pm - 3:50pm	HJP 2242

EDCP615 **Counseling I: Appraisal**

Credits: 3 Grading Method: Regular, Audit

Corequisite: EDCP618. Restriction: Must be in a major within EDUC-Counseling, Higher Education and Special Education department.

Collection and interpretation of appraisal data, synthesis of data through case study procedures. Development of interview skills.

0101	Jessica McKechnie	Seats (Total: 11)
	Th 4:15pm - 7:00pm	EDU 2119

EDCP616 **Counseling II: Theory and Practice**

Credits: 3 Grading Method: Regular, Audit

Corequisite: EDCP618.

Counseling theories and the practices which stem from such theories.

For EDCP majors only.

0101	Mary Ann Hoffman	Seats (Total: 26)
	Tu 4:15pm - 7:00pm	EDU 3236
	Limited to Students in the Masters Program.	

EDCP617 **Group Counseling**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EDCP616.

A survey of theory, research and practice of group counseling and psychotherapy, with an introduction to growth groups and the laboratory approach, therapeutic factors in groups, composition of therapeutic groups, problem clients, therapeutic techniques, research methods, theories, ethics and training of group counselors and therapists.

0101	Cixin Wang	Seats (Total: 10)
	W 3:00pm - 5:45pm	WDS 0104

EDCP619B **Practicum in Counseling**

Credits: 3 Grading Method: Regular, Audit

Sequence of supervised counseling experiences of increasing complexity. Limited to eight applicants in advance. Two hours class plus laboratory.

0101	Sharon Kirkland-Gordon	Seats (Total: 4)
	Th 1:00pm - 3:00pm	SHM 1106
	Contact instructor or department for details.	

EDCP622 **Human Development in the Counseling Context**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: EDCP789X or EDCP622. Formerly: EDCP789X.

An examination of the development of individuals over the lifespan. A focus on human development theories and the ways in which those theories are utilized within the counseling process to promote optimal development of individuals and families across the lifespan.

0101	Ellen Fabian	Seats (Total: 20)
	Th 4:15pm - 7:00pm	EDU 3233

EDCP632 **Cognitive Assessment**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in the School Psychology program; or permission of EDUC-Counseling, Higher Education and Special Education department.

Assessment of cognitive functioning of children and adolescents in reference to school learning and behavior problems. Administering, scoring and interpreting cognitive assessment instruments commonly used in school systems.

Class meets in 1102M Seneca Building.

Click here for Google Map Directions. Click here for UMD Map for Seneca Directions.

0101	Kelly Lee W 9:00am - 11:45am	Seats (Total: 10) Location: TBA

EDCP640 **School Psychology Seminar: Overview of the Specialty**

Credits: 1-2 Grading Method: Regular, Audit

Restriction: Must be in the School Psychology program; or permission of instructor.

Overviews the specialty of school psychology, including history of the specialty, roles and functions of school psychologists, and current professional issues related to the specialty.

0101	Colleen O'Neal M 1:00pm - 2:45pm	Seats (Total: 10) EDU 3236

EDCP641 **School Psychology Seminar: Professional Ethics**

Credits: 1-2 Grading Method: Regular, Audit

Restriction: Must be in the School Psychology program; or permission of instructor.

Overviews ethical issues in the specialty of school psychology.

0101	Colleen O'Neal M 2:45pm - 4:00pm	Seats (Total: 10) EDU 3236

EDCP652 **Research in Counseling**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in the School Counseling program. Credit only granted for: EDCP652 or EDCP789Y. Formerly: EDCP789Y.

An exploration of basic and applied research, program evaluation, and associated measurement and evaluation skills crucial for professional school counselors.

0101	Paul Gold W 4:15pm - 7:00pm	Seats (Total: 15) EDU 3236

EDCP682 **Counseling Psychology Didactic Practicum in Group Interventions**

Credits: 3 Grading Method: Sat-Fail

Prerequisite: For Counseling Psychology majors only. Also offered as: PSYC682. Formerly: EDCP718.

In depth examination of theories and techniques of group interventions; supervised experience in group counseling.

0101	Dennis Kivlighan	Seats (Total: 10)
	Th 1:00pm - 3:50pm	EDU 2101

EDCP685 **Counseling Psychology Didactic Practicum in Counseling Supervision**

Credits: 3 Grading Method: Sat-Fail

Prerequisite: For Counseling Psychology majors only. Also offered as: PSYC685. Formerly: EDCP745.

In depth examinatin of theories and techniques of counseling supervision, supervised experience in the process of supervising counselors.

0101	Mary Ann Hoffman	Seats (Total: 10)
	W 10:00am - 12:45pm	TWS 3132

EDCP697 **Multicultural Issues in Counseling Psychology**

Credits: 3 Grading Method: Regular

Prerequisite: Only open to Counseling Psychology majors. Also offered as: PSYC697. Credit only granted for: EDCP697, EDCP699, or PSYC697. Formerly: EDCP699.

Exploration of knowledge, attitudes and skills for providing counseling and psychological services to culturally diverse populations.

0101	Richard Shin	Seats (Total: 10)
	Tu 4:00pm - 6:45pm	EDU 2101

EDCP738 **Practicum in Child Assessment**

Credits: 3 Grading Method: Regular, Audit

Administration of complete test batteries to children; supervision of initial interviews; test administration and scoring; interpretation and synthesis of test battery and interview material; the psychological report; verbal interpretation of test results; and recommendations. Taken initially with EDCP 633; repeated with EDCP 634 in the subsequent semester.

Class meets in 1102M Seneca Building.

0101	Jill Jacobson Th 9:00am - 12:15pm *Class will meet in the Seneca Building, Room 1102M.*	Seats (Total: 4) Location: TBA
0201	Jill Jacobson Th 11:15am - 2:30pm *Class will meet in the Seneca Building, Room 1102M.*	Seats (Total: 4) Location: TBA

EDCP741 **Multicultural Practice in Student Affairs: Self, Education, and Society**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EDCP771. Credit only granted for: EDCP741 or EDCP789Z. Formerly: EDCP789Z.

Develop knowledge and skills in the area of multicultural practice in student affairs through the examination of oppression, power, and privilege and how these dynamics impact individuals, educational institutions, and societies.

0101	Candace Moore W 1:00pm - 4:00pm	Seats (Total: 20) EDU 3236

EDCP746 **Clinical Supervision of Pupil Personnel Services**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Advanced Doctoral Students Only. Restriction: Permission of instructor.

Supervision of role of psychologists and counselors in school settings; applied skills in supervision of services.

0101	Cixin Wang W 10:00am - 12:45pm	Seats (Total: 10) JMZ 1123

EDCP772 **Research in Student Affairs**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EDCP656; or permission of instructor. Restriction: Must be in the College Student Personnel program.

Research designs and approaches to research in student development and higher education. Development of research for research competency or dissertation proposal.

0101	Julie Park	Seats (Total: 10)
	Th 1:00pm - 4:00pm	HBK 0103

EDCP775 **Facilitating Student Learning in Higher Education**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EDCP771; or permission of EDUC-Counseling, Higher Education and Special Education department. Restriction: Must be in Counseling and Personnel Services (Doctoral) program.

Application of selected models of college student development, learning styles, and related models of instruction to the assessment of characteristics and the design of learning environments.

0101	Julie Park	Seats (Total: 15)
	Th 9:00am - 12:00pm	EDU 2119

EDCP789 **Advanced Topics in Counseling and Personnel Services**

(Perm req)

Credits: 1-6 Grading Method: Regular, Audit

Contact department for information to register for this course.

EDCP789Q **Advanced Topics in Counseling and Personnel Services; Developmental Psychopathology**

Credits: 3 Grading Method: Regular, Audit

0101	Hedwig Teglasi	Seats (Total: 10)
	W 9:30am - 12:15pm	EDU 2101

EDCP789R **Advanced Topics in Counseling and Personnel Services; College Teaching Seminar**

(Perm req)

Credits: 1-6 Grading Method: Regular, Audit

0101	Michelle Espino	Seats (Total: 5)
	Contact instructor or department for details.	

EDCP789Z **Advanced Topics in Counseling and Personnel Services**

Credits: 1-6 Grading Method: Regular, Audit

0101	Colleen O'Neal M 9:00am - 12:00pm	Seats (Total: 10) EDU 2101

EDCP798 **Special Problems in Counseling and Personnel Services**

(Perm req)

Credits: 1-6 Grading Method: Regular, Audit

Master's AGS, or doctoral candidates who desire to pursue special research problems under the direction of their advisers may register for credit under this number.

Contact department for information to register for this course.

EDCP798A **Special Problems in Counseling and Personnel Services; Research Design and Proposal Writing Seminar**

Credits: 3 Grading Method: Regular, Audit

Master's AGS, or doctoral candidates who desire to pursue special research problems under the direction of their advisers may register for credit under this number.

0101	Michelle Espino W 9:00am - 11:45am	Seats (Total: 15) EDU 3236

EDCP799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Registration required to the extent of six hours for Master's thesis.

Contact department for information to register for this course.

EDCP799A **Master's Thesis Research; Research Design and Proposal Writing Seminar**

Credits: 1-6 Grading Method: Regular, Sat-Fail

Registration required to the extent of six hours for Master's thesis.

0101	Michelle Espino W 9:00am - 11:45am	Seats (Total: 10) EDU 3236

EDCP870 **Professional Issues Seminar**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: EDCP656 or EDCP870. Formerly: EDCP656.

Examination of issues that bear on professional issues such as ethics, inter-professional relationships and research.

0101	Marvin Titus M 4:15pm - 7:00pm *Only open to HESI Doctoral students.*	Seats (Total: 20) EDU 0220

EDCP888 **Apprenticeship in Counseling and Personnel Services**

(Perm req)

Credits: 1-8 Grading Method: Regular, Audit

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate-seeking graduate students.

Contact department for information to register for this course.

EDCP888A **Apprenticeship in Counseling and Personnel Services; College Student Personnel**

Credits: 3 Grading Method: Regular, Audit

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate-seeking graduate students.

0101	John Zacker Contact instructor or department for details.	Seats (Total: 10)
0401	John Zacker Contact instructor or department for details.	Seats (Total: 15)

EDCP888C **Apprenticeship in Counseling and Personnel Services; School Psychology**

Credits: 1-8 Grading Method: Regular

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate-seeking graduate students.

0101	Hedwig Teglasi W 3:30pm - 5:00pm	Seats (Total: 15) TWS 1320

0201	Hedwig Teglasi	Seats (Total: 15)
	Contact instructor or department for details.	

EDCP888G **Apprenticeship in Counseling and Personnel Services; School Counseling**

Credits: 3 Grading Method: Regular, Audit

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate-seeking graduate students.

0101	Jessica McKechnie	Seats (Total: 15)
	M 7:00pm - 9:45pm	EDU 3233

EDCP889 **Internship in Counseling and Personnel Services; Internship in Counseling and Personnel Services**

Credits: 1-8 Grading Method: Regular, Audit

Internship experiences at a professional level of competence in a particular role with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students advanced to candidacy for doctoral degree.

Contact department for information to register for this course.

EDCP889I **Internship in Counseling and Personnel Services; School Psychology**

Credits: 3 Grading Method: Regular, Audit

Internship experiences at a professional level of competence in a particular role with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students advanced to candidacy for doctoral degree.

0101	Jill Jacobson	Seats (Total: 10)
	M 5:00pm - 7:30pm	Location: TBA

EDCP898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

EDCP899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Registration required to the extent of 12-18 hours for a Ph.D. Dissertation.

Contact department for information to register for this course.

EDHD Education, Human Development Fall 2018

EDHD210 **Foundations of Early Childhood Education**

(Perm req)

Credits: 3 Grading Method: Regular CORE: HO General Education: DSHS

Restriction: Permission of EDUC-Human Development and Quantitative Methodology department.

Students explore historical and current research in early childhood education, primary models of curriculum and pedagogy in the field, and the relationship between critical aspects of young children's development and the creation of inclusive learning opportunities for all children, including children at risk. The concept of developmentally appropriate practice and its application across different developmental levels and early childhood classrooms will be introduced and connected with discussion in EDHD220 and EDSP211. Students examine issues in developing and implementing high quality early childhood education experiences for young children with and without disabilities, including the influence of family, culture, and community, the needs of children at risk (e.g., poverty, immigrant status, English Language Learners), and the role of assessment in early learning.

0101	Elisa Klein	Seats (Total: 25)
	Th 1:00pm - 3:45pm	JMZ 0120

EDHD220 **Exploring Early Childhood General and Special Education**

(Perm req)

Credits: 3 Grading Method: Regular General Education: DSSP

Restriction: Permission of EDUC-Human Development and Quantitative Methodology department.

Students who are considering a career in education will consider information about the teaching profession. Students reflect on their personal strengths, identify areas of growth, and examine their predisposition to work with young children with and without disabilities. They will discuss the nature of teaching, the moral and philosophic underpinnings that influenced their decision to enter into the teaching professions, as well as the roles and responsibilities of teachers and the characteristics and qualities for effective teachers (teaching styles and teacher's primary role in the classroom).

Intended primarily for students planning to apply to the Early Childhood Education Program. Allow an appropriate amount of time to travel from your on-campus class meetings to your off-campus experience.

0101	Francine Marchese	Seats (Total: 6)	
	Tu 2:00pm - 4:00pm	EDU 2102	
	M 8:30am - 12:30pm	Location: TBA	Lab

0102	Francine Marchese Tu 2:00pm - 4:00pm Tu 8:30am - 12:30pm	Seats (Total: 7) EDU 2102 Location: TBA	Lab
0103	Francine Marchese Tu 2:00pm - 4:00pm Th 8:30am - 12:30pm	Seats (Total: 7) EDU 2102 Location: TBA	Lab
0104	Francine Marchese Tu 2:00pm - 4:00pm F 8:30am - 12:30pm	Seats (Total: 5) EDU 2102 Location: TBA	Lab

EDHD230 **Human Development and Societal Institutions**

Credits: 3 | Grading Method: Regular, Audit | CORE: SB, D | General Education: DSHS, DVUP

Development of the individual in the context of relationships with the formal and informal institutions of society. An examination of various aspects of development from the broad perspective of the social sciences.

0101	Jennie Lee-Kim TuTh 12:30pm - 1:45pm	Seats (Total: 40) EDU 2119

EDHD231 **Inside 21st Century Creativity: How Creative Ideas, Concepts, and Products are Generated**

Credits: 3 | Grading Method: Regular | General Education: DSHS, SCIS

Mechanisms of the creative mind. Psychological, social, sociological, developmental, cultural, educational, genetic and neural based roots of creativity.

0101	Kevin Dunbar TuTh 9:30am - 10:45am	Seats (Total: 75) TWS 1100
0201	Kevin Dunbar TuTh 2:00pm - 3:15pm	Seats (Total: 75) JMZ 0220

EDHD306 **Research Methods in Human Development**

Credits: 3 | Grading Method: Regular | General Education: FSAR

Addresses the scientific concepts and principles central to the study of human behavior and development. Students will learn about basic research methods in studying human behavior in developmental context and will participate in experiential activities, such as conducting observations and collecting self-report data. Major themes: goals of developmental research, fundamental research designs, types of measurement, elements of good scientific writing, and ethical issues in the study of human development.

0101	Hongyang Zhao TuTh 12:30pm - 1:45pm	Seats (Total: 40) EDU 1121
0201	Anisha Singh MW 2:00pm - 3:15pm	Seats (Total: 40) TYD 2110

EDHD314 **Reading in the Early Childhood Classroom**

Credits: 3 Grading Method: Regular

Prerequisite: EDHD210, EDHD220, and EDSP211. Corequisite: EDHD425; and corequisite: EDHD419 or EDSP420. Restriction: Must be enrolled in Professional Early Childhood/Early Childhood Special Education Program; and minimum cumulative GPA of 2.75.

Early childhood students introduced to current research/methods on teaching language arts. Focus on development of linguistic and cognitive processes in emergent literacy and beginning reading and writing. Application to models for the instruction and assessment of reading/writing in preschool-aged children. Also includes material on classroom-based interventions for young children at risk of reading failure due to learning difficulties. Includes Field Experiences.

Restricted to major code 0822P.

0101	Donald Bolger Th 1:00pm - 3:00pm Contact instructor or department for details.	Seats (Total: 35) EDU 3315

EDHD319 **Selected Topics in Human Development**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected topics in human development in relation to contemporary culture.

Contact department for information to register for this course.

EDHD320 **Human Development Through the Life Span**

Credits: 3 Grading Method: Regular, Audit General Education: DSHS

Central concepts related to parameters of human development, individual and social, which arise throughout the life span. Continuity and change within the developing individual.

0101	Olga Walker Tu 4:15pm - 5:30pm Class time/details on ELMs	Seats (Total: 40) KEY 0126 ONLINE
0201	Laura Jimenez Parra TuTh 2:00pm - 3:15pm	Seats (Total: 40) EDU 2119

EDHD322 **The Young Child as Mathematician**

Credits: 3 Grading Method: Regular

Prerequisite: EDSP423, EDHD431, and EDSP315; and track 1: Must have completed EDSP 430, EDSP 433; OR Track 2: Must have completed EDHD415, EDHD 424. Corequisite: EDHD323, EDSP321, EDSP417, EDHD441, EDHD442, EDHD443, and EDHD444. Restriction: Must be in the Professional Early Childhood/Early Childhood Special Education program; and senior standing or higher; and minimum cumulative GPA of 2.75.

Provides a theoretical and instructional framework for mathematics instruction in early childhood classrooms. Development of understanding of early childhood mathematics that emphasizes how and in what environment young children learn mathematics. Current thinking about both content and instructional strategies for mathematics curriculum, including identification and review of standards and expectations for learning outcomes for all children. Assessment strategies for evaluating all children will be addressed. Includes Phase 1 Field Experience.

Restricted to major code 0822P.

0101	Geetha Ramani W 2:00pm - 4:00pm Contact instructor or department for details.	Seats (Total: 28) EDU 2121

EDHD323 **Children Study their World**

Credits: 3 Grading Method: Regular

Prerequisite: EDSP423, EDHD431, and EDSP315; and track 1: Must have completed EDSP430, EDSP433; or Track 2: Must have completed EDHD415, EDHD424. Corequisite: EDHD322, EDSP417, EDHD441, EDHD443, EDHD442, EDHD444, and EDSP321. Restriction: Must be in the Professional Early Childhood/Early Childhood Special Education program; and senior standing or higher; and minimum cumulative GPA of 2.75.

Provides theoretical and instructional framework for social studies instruction in inclusive early childhood classrooms. Course will reflect current thinking about content and instructional strategies for social studies curriculum; identification and review of standards/expectations for learning outcomes for all children; assessment strategies for evaluating of social studies objectives; use of data driven instruction to support all children; observation of children's understanding of their social world in field placements; opportunities to explore these understandings through interviews with children and the implementation of activities. Includes Phase 1 Field Experience.

Restricted to major code 0822P.

0101	Elisa Klein	Seats (Total: 28)
	W 11:00am - 1:00pm Contact instructor or department for details.	EDU 1121

EDHD386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Restriction: Permission of EDUC-Human Development and Quantitative Methodology department; and junior standing or higher.

Contact department for information to register for this course.

EDHD402 **Social Development**

Credits: 3 Grading Method: Regular

Recommended: EDHD411.

Social Development. Critical concepts and ideas of the study of child and adolescent social development. Focus on changes in interpersonal relationships, emotions, achievement-related behavior and competence, and functioning within the broader social context.

0101	Olga Walker	Seats (Total: 40)
	Class time/details on ELMs	ONLINE

EDHD411 **Child Growth and Development**

Credits: 3 Grading Method: Regular, Audit General Education: DSHS

Theoretical approaches to and empirical studies of physical, psychological and social development from conception to puberty. Implications for home, school and community.

0101	Jennie Lee-Kim Th 9:30am - 12:15pm *Section 0101 should be restricted to 0808L, 0808P, 0802L, or 0802P.*	Seats (Total: 40) EDU 1107
0201	Lucas Butler M 11:00am - 12:15pm Class time/details on ELMs	Seats (Total: 40) EDU 3315 ONLINE

EDHD412 **Infant Development**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS

Infant development across domains, including perceptual, motor, cognitive, language, social and emotional functioning from pre-natal through third year of life.

0101	Brenda Harden MW 11:00am - 12:15pm	Seats (Total: 40) EDU 2119

EDHD413 **Adolescent Development**

Credits: 3 | Grading Method: Regular | General Education: DSHS

Adolescent development, including special problems encountered in contemporary culture. Observational component and individual case study.

0101	Jennie Lee-Kim W 11:00am - 12:15pm Class time/details on ELMs *Restriction: Students in Human Development Minor with Program Code #ED05.*	Seats (Total: 40) EDU 3315 ONLINE
0201	Ann Battle Tu 9:30am - 12:15pm *Section 0201 is restricted to major codes 0831L, 0831P, 0840L, 0840P, 0841L, 0841P, 0842L, 0842P, 0804L, 0804P*	Seats (Total: 40) EDU 2119

EDHD425 **Language Development and Reading Acquisition**

Credits: 3 | Grading Method: Regular, Audit

This course focuses on young children's language development and the relationship between language and reading acquisition. Students will learn: concepts central to language development; language achievements at different ages; concepts of emergent literacy; models of reading acquisition and skilled reading.

0101	Min Wang Tu 1:00pm - 3:45pm	Seats (Total: 35) EDU 1107
	Restricted to Early Childhood education majors, major code 0822P only.	
0201	Min Wang W 12:30pm - 3:15pm	Seats (Total: 40) EDU 2119

EDHD426 **Cognitive and Motivational Literacy Content**

Credits: 3 Grading Method: Regular

Students preparing for secondary teaching will learn about the cognitive and motivational aspects of literacy and learning from text for the content areas of literature, science, history and mathematics. Different evidenced-based literacy approaches appropriate for content learning are presented. Characteristics of learning environments that enable students to engage productively with diverse texts, disciplinary tasks, and technological resources in content areas are identified.

Restriction: Must be a Secondary Education major.

0101	Daphne Williams W 5:30pm - 8:15pm	Seats (Total: 40) EDU 3315

EDHD434 **Child Development, Birth to Three Years**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: EDHD210, EDHD220, and EDSP211. Corequisite: EDHD314 and EDHD425. Also offered as: EDSP420. Credit only granted for: EDHD419A, EDSP420 or EDHD434. Formerly: EDHD419A.

Designed to provide students with an understanding of child development theory and research, as well as knowledge about typical and atypical development of children from birth to three years of age. The course emphasizes learning for children with and without disabilities, and for children who are at risk due to poverty and other environmental factors. The course will introduce how children develop and the challenges they face within the domains of physical, cognitive, language, social, and emotional development, with particular attention paid to the impact of risk factors on development. Students will become familiar with delays and differences in development that may occur as the result of disability. Finally, students will learn the effects of cultural and linguistic differences on growth and development. Information about theory and research in child development for children with and without disabilities will be enhanced through a series of observational experiences, which will build upon concepts addressed during class. Includes field experiences.

0101	Brenda Harden	Seats (Total: 35)
	W 2:00pm - 4:45pm	BPS 1228

EDHD441 **Data Driven Decision Making in EC/ECSE**

Credits: 1 Grading Method: Regular

Prerequisite: Minimum grade of C- in EDSP423, EDHD431, and EDSP315; and TRACK I: Must have completed EDSP430 and EDSP433 or TRACK 2: Must have completed EDHD415 and EDHD424. Corequisite: EDHD322, EDHD323, EDSP321, EDSP417, EDHD442, EDHD443, and EDHD444.

Students will be exposed to formative (e.g., classroom based, ongoing) and summative (e.g., standardized testing) assessments. Students will collect and analyze formative assessment data from their internship classrooms as the bases of planning and delivering instruction to meet the diverse needs of all learners. They will also analyze standardized assessment data to gain an understanding of measures used to determined cross-school and cross-teacher effectiveness. Includes Phase I field experience.

Restricted to major code 0822P.

0101	Jennifer McCatharn	Seats (Total: 28)
	Meets October 15, 2018 - November 5, 2018	
	M 10:00am - 12:00pm	EDU 1121
	Contact instructor or department for details.	

EDHD442 **Interventions for Children with Behavioral Challenges**

Credits: 1 Grading Method: Regular

Prerequisite: Minimum grade of C- in EDSP423, EDHD431, and EDSP315; and TRACK I: Must have completed EDSP430 and EDSP 433; or TRACK 2: Must have completed EDHD415 and EDHD 424. Corequisite: EDSP321, EDSP417, EDHD322, EDHD323, EDHD441, EDHD443, and EDHD444.

Students will expand knowledge of and develop skills to address challenging behaviors in inclusive early childhood classrooms. Students examine the causes underlying challenging behaviors during the early childhood years, and identify appropriate resources and support services for working with families to develop a unified approach when responding to behavioral challenges. Includes Phase I field experience.

Restricted to major code 0822P.

0101	Leigh Kurz	Seats (Total: 28)
	Meets August 27, 2018 - October 1, 2018	
	M 10:00am - 12:00pm Contact instructor or department for details.	EDU 1121

EDHD443 **Interventions for Children with Social and Communication Challenges**

Credits: 1 Grading Method: Regular

Prerequisite: Minimum grade of C- in EDSP423, EDHD431, and EDSP315; and TRACK I: Must have completed EDSP430 and EDSP 433; or TRACK 2: Must have completed EDHD415 and EDHD 424. Corequisite: EDHD322, EDSP321, EDSP417, EDHD323, EDHD441, EDHD442, and EDHD444.

Students will learn about the characteristics of children with autism spectrum disorder, pervasive developmental disorder, social communication disorder, and other related challenges and will be equipped to meet the needs of this group of children in the early childhood classroom. The utilization of Universal Design for Learning (UDL), Response to Intervention (RTI) and other early childhood special education approaches, as they apply to this specific group of children, will be addressed. Interventions designed to improve the functioning of children with autism spectrum disorders and related disorders will be reviewed. Includes Phase I field experience.

Restricted to major code 0822P.

0101	Jamell White	Seats (Total: 28)
	Meets November 12, 2018 - December 10, 2018	
	M 10:00am - 12:00pm Contact instructor or department for details.	EDU 1121

EDHD444 **Action Research in EC/ECSE**

Credits: 1 Grading Method: Regular

Prerequisite: Minimum grade of C- in EDSP423, EDHD431, and EDSP315; and track 1: Must have completed EDSP430 and EDSP433; OR Track 2: Must have completed EDHD415 and EDHD424. Corequisite: EDHD322, EDHD323, EDHD441, EDHD442, EDHD443, EDSP417, and EDSP321.

Students will become familiar with the EC/ECSE research process, literature and how teachers use action research to improve pedagogy and the experiences of children in classrooms or home-based contexts. Students will utilize this knowledge, as well as either a goal in an Individualized Education Plan (IEP) or Individualized Family Service Plan (IFSP) or School Improvement Plan (SIP), to develop an action research study commenced during the following semester. Includes Phase I field experience.

Restricted to major code 0822P. Class meets 9/17/18, 10/15/18, 11/05/18, 11/19/18, and 12/10/18.

0101	Judith Anderson	Seats (Total: 28)
	Meets September 17, 2018 - December 10, 2018	
	M 4:15pm - 6:15pm	EDU 3315
	Contact instructor or department for details.	

EDHD460 **Educational Psychology**

Credits: 3 Grading Method: Regular, Audit General Education: DSHS

Prerequisite: PSYC100; or permission of EDUC-Human Development and Quantitative Methodology department.

Application of psychology to learning processes and theories. Individual differences, measurement, motivation, emotions, intelligence, attitudes, problem solving, thinking and communicating in educational settings.

0101	Yuting Sun	Seats (Total: 40)
	MW 11:00am - 12:15pm	ASY 3203

EDHD489 **Field Experiences in Education**

(Perm req)

Credits: 1-4 Grading Method: Regular, Pass-Fail, Audit

Planned field experience in education-related activities. Credit not to be granted for experiences accrued prior to registration.

Contact department for information to register for this course.

EDHD498 **Special Problems in Education**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Available only to students who have definite plans for individual study of approved problems.

Contact department for information to register for this course.

EDHD498C **Special Problems in Education; Recent Advances in Social and Emotional Development**

(Perm req)

Credits: 3 Grading Method: Regular

Available only to students who have definite plans for individual study of approved problems.

0101	Kenneth Rubin	Seats (Total: 15)
	TBA	EDU 1108

EDHD498G **Special Problems in Education; Cross-Cultural Approaches to Child Development and Poverty in the U.S. and Chile**

Credits: 3 Grading Method: Regular

Available only to students who have definite plans for individual study of approved problems.

This course will help students gain a cross cultural understanding of child development and poverty in different contexts (U.S. and Chile). Through the use of technology, UMD students will interact directly with their peers in Chile.

0101	Natasha Cabrera	Seats (Total: 18)
	Tu 1:00pm - 4:00pm	HJP 3120

EDHD600 **Introduction to Human Development and Child Study**

Credits: 3 Grading Method: Regular

An overview of the multidisciplinary, scientific principles which describe human development and behavior and an application of these principles in an analysis of a behavioral record. Techniques of observation, recording, and analysis of human behavior. Emphasis on critiquing and applying research findings.

Contact department for information to register for this course.

EDHD617 **Achievement Motivation in Adolescence**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: EDHD779W or EDHD617. Formerly: EDHD779W.

Study of different aspects of motivation and how they develop in the secondary school years. Focus on how different instructional practices influence motivation and design of various strategies for improving students motivation.

Contact department for information to register for this course.

EDHD629 **Seminar for the Center for Children, Relationships, and Culture**

Credits: 1

Grading Method: Regular, Audit

A seminar and colloquia series featuring speakers from the department, the college, the university, and other universities and institutions from across the world that aims to cover issues pertaining to contemporary theory and research in human development.

0101	Lucas Butler	Seats (Total: 20)
	Meets August 27, 2018 - December 10, 2018	
	W 11:15am - 1:45pm	EDU 1107

EDHD662 **Research Methods in Education Settings**

Credits: 3

Grading Method: Regular, Audit

Research methods associated with studying the development, achievement, and school adjustment of children and adolescents in educational settings, with an emphasis on quantitative methodologies.

Contact department for information to register for this course.

EDHD690 **History and Systems in Human Development**

Credits: 3

Grading Method: Regular

Theoretical foundations in the field of human development with a focus on connections between the major theoretical paradigms in the literature and current research in developmental science.

0101	Natasha Cabrera	Seats (Total: 20)
	Tu 9:30am - 12:15pm	JMZ 0120

EDHD692 **Cognitive Basis of Instruction**

Credits: 3

Grading Method: Regular, Audit

Restriction: Permission of EDUC-Human Development and Quantitative Methodology department.

Psychological and educational research literature on human cognition, especially as applied to learning and teaching in classroom settings.

Contact department for information to register for this course.

EDHD718 **Apprenticeship in College Teaching; Apprenticeship in College Teaching**

(Perm req)

Credits: 1

Grading Method: Regular

For graduate students teaching autonomously for the first, second, or third tiem at the University of Maryland, College Park; not intended for teaching assistants. This course provides graduate student teachers with a set of structured experiences that foster professional growth and development in the role of college instructor. Includes seminars on the scholarship of college teaching and principles of optimal college classroom environments, peer and faculty in-class observations of teaching, and guided reflective analysis of experience in the classroom.

0101	Ann Battle	Seats (Total: 10)
	F 1:00pm - 3:30pm	EDU 3233

EDHD720 **Social Development and Socialization Processes**

Credits: 3 Grading Method: Regular, Audit

This course covers social development and socialization processes acros the life-span. The course typically covers the following topics: parent-child relationships, peer relationships, moral development, social cognition, social competence, social motivation, self-regulation, and cultural influences on development. This is core doctoral course.

0101	Kenneth Rubin	Seats (Total: 10)
	Tu 1:00pm - 3:45pm	EDU 1108

EDHD721 **Cognitive Development and Learning: An Introduction**

Credits: 3 Grading Method: Regular, Audit

Introductory survey into contemporary theory and research in cognitive development; applications to classroom learning.

0101	Geetha Ramani	Seats (Total: 20)
	M 10:00am - 12:45pm	EDU 1107

EDHD779P **Selected Topics in Human Development; Fake News & Alternative Facts: How Children Learn to Navigate Evidence in a Complex Social World**

Credits: 3 Grading Method: Regular, Audit

This course focuses on topics of current significance in human development research. Topics covered change each semester, and vary by instructor.

0101	Lucas Butler	Seats (Total: 20)
	M 1:00pm - 3:45pm	EDU 2101

EDHD789 **Internship in Human Development**

(Perm req)

Credits: 3-8 Grading Method: Regular, Audit

Internship experience in one or more human service agencies in the community.

Contact department for information to register for this course.

EDHD798 **Laboratory in Human Development**

(Perm req)

Credits: 1-6 Grading Method: Regular, Audit

Independent research supervised by an instructor in a research setting.

Limited to human development majors.

Contact department for information to register for this course.

EDHD799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Registration required to the extent of six hours for master's thesis.

Limited to human development majors.

Contact department for information to register for this course.

EDHD835 **The Development of Achievement Motivation**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EDHD830 or EDHD721; or permission of EDUC-Human Development and Quantitative Methodology department.

Development of achievement motivation and how it relates to academic achievement during the elementary and secondary school years. Expectancy-value theory, attribution theory, self-efficacy theory, socialization of achievement motivation.

0101	Allan Wigfield	Seats (Total: 20)
	W 4:15pm - 7:00pm	TWS 1321

EDHD850 **Social Cognition and Moral Reasoning**

Credits: 3 Grading Method: Regular, Audit

Theory and research on social-cognition development and moral development, from infancy to adolescence will be covered.

0101	Melanie Killen Th 1:00pm - 3:45pm	Seats (Total: 20) EDU 1107

EDHD888 **Apprenticeship in Human Development Research**

(Perm req)

Credits: 1-8 Grading Method: Regular, Audit

Apprenticeship in Human Development research.

Contact department for information to register for this course.

EDHD889 **Practicum in Human Development**

(Perm req)

Credits: 3-8 Grading Method: Regular, Audit

Field experience in applied human development at a professional level o competence in a particular role with appropriate supervision.

Contact department for information to register for this course.

EDHD898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

EDHD899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Registration required to 12-18 hours for a Ph.D. dissertation.

Limited to human development majors.

Contact department for information to register for this course.

EDHI Education Leadership, Higher Ed and International Ed Fall 2018

EDHI338B **Teaching and Learning about Cultural Diversity through Intergroup Dialogue; Race, Socioeconomic Status, or Gender**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit General Education: DVCC

Engages students, from one or more cultural identity groups, in facilitated dialogue about the similarities and differences of experience that exist within a group and/or between and across groups. The goal of intergroup dialogue is for students to develop comfort with, and skill for, discourse on difficult topics toward the end of fostering positive, meaningful, and sustained cross-group relationships. Whereas in debate, students learn to listen to gain advantage, in intergroup dialogue, students learn to listen to gain understanding. In so doing, students develop increased multicultural interaction facility, heightened intergroup awareness and sensitivity, and greater commitment to civic engagement.

0101	David Blount, Collin Vernay, Courtney Riley, Kevin Webb, Elizabeth Sweeney, Carlton Green, Peter DeCrescenzo, Tiffany Harris, Timea Webster **Meets August 28, 2018 - October 9, 2018** Tu 6:30pm - 8:30pm	Seats (Total: 42) MMH 2411

EDHI338D **Teaching and Learning about Cultural Diversity through Intergroup Dialogue; Sexual Identity, Religion and Spirituality, or Size and App earance**

Credits: 1 | Grading Method: Regular, Pass-Fail, Audit | General Education: DVCC

Engages students, from one or more cultural identity groups, in facilitated dialogue about the similarities and differences of experience that exist within a group and/or between and across groups. The goal of intergroup dialogue is for students to develop comfort with, and skill for, discourse on difficult topics toward the end of fostering positive, meaningful, and sustained cross-group relationships. Whereas in debate, students learn to listen to gain advantage, in intergroup dialogue, students learn to listen to gain understanding. In so doing, students develop increased multicultural interaction facility, heightened intergroup awareness and sensitivity, and greater commitment to civic engagement.

0201	Sika Wheeler, Thomas Le, Benjamin Beltran, Jazmin Pichardo, Holly Ulmer, Timea Webster, Carlton Green, Benjamin Parks, Michelle Strange **Meets October 22, 2018 - December 3, 2018** M 6:30pm - 8:30pm	Seats (Total: 42) MMH 2411

EDHI338V **Teaching and Learning about Cultural Diversity through Intergroup Dialogue; Disability or Immigration**

Credits: 1 | Grading Method: Regular, Pass-Fail, Audit | General Education: DVCC

Engages students, from one or more cultural identity groups, in facilitated dialogue about the similarities and differences of experience that exist within a group and/or between and across groups. The goal of intergroup dialogue is for students to develop comfort with, and skill for, discourse on difficult topics toward the end of fostering positive, meaningful, and sustained cross-group relationships. Whereas in debate, students learn to listen to gain advantage, in intergroup dialogue, students learn to listen to gain understanding. In so doing, students develop increased multicultural interaction facility, heightened intergroup awareness and sensitivity, and greater commitment to civic engagement.

0201	Carlton Green, Erin McClure, Judith Martinez, Ron Padron, Timea Webster, Tynesha McCullers **Meets October 23, 2018 - December 4, 2018** Tu 5:30pm - 7:30pm	Seats (Total: 28) MMH 2411

EDHI488E **Special Topics in Education Policy and Administration; Ecological Ethics and Education**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special and intensive treatment of current topics and issues in education policy and administration.

0101	Jing Lin W 4:15pm - 7:00pm	Seats (Total: 20) EDU 1315

EDHI489 **Field Experiences in Education**

(Perm req)

Credits: 1-4 Grading Method: Regular, Pass-Fail, Audit

Planned field experience in education-related activities. Credit not to be granted for experiences accrued prior to registration.

Contact department for information to register for this course.

EDHI498 **Special Problems in Education**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Available only to students who have definite plans for individual study of approved problems.

Contact department for information to register for this course.

EDHI605 **Comparative Education**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: EDHI605, EDPL605, or EDPS605. Formerly: EDPL605.

Analyzes and compares leading issues in education in various countries of the world, particularly as they relate to crucial problems in American education.

0101	Mark Ginsburg M 4:15pm - 7:00pm	Seats (Total: 20) EDU 2101

EDHI606 **Political Economy of Education in a Global Context**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: EDHI606, EDPL606, or EDPS606. Formerly: EDPL606.

Examination of alternative economics perspectives and their implication for education policy and practice internationally, from local to global levels. The connection of education to issues of development, inequality, poverty, gender, and race will be discussed.

0101	Steven Klees Tu 4:15pm - 7:00pm	Seats (Total: 20) EDU 2102

EDHI640 **Introduction to Educational Leadership**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: EDHI640, EDPL640, or EDPS640. Formerly: EDPL640.

The focus of this course is the analysis of the role of education administrators/leaders in the social, political, and legal contexts of schools. Also examines the role of leadership in school improvement.

Contact department for information to register for this course.

EDHI645 **Leading Instructional Improvement**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: EDHI645, EDPL645, or EDPS645. Formerly: EDPL645.

Development of knowledge and skills in the use of data bases, research findings and models of supervision, to improve instruction in schools.

Contact department for information to register for this course.

EDHI650 **Professional Seminar in Higher and Adult Education**

Credits: 3 Grading Method: Sat-Fail

Credit only granted for: EDHI650, EDPL650, or EDPS650. Formerly: EDPL650.

Introduction to higher and adult education as a field of study. Origins current dimensions and problems, and emerging issues. Field trips to state and national capitols, and involvement in professional conferences.

0101	Sharon Fries-Britt	Seats (Total: 20)
	Th 4:15pm - 7:00pm	EDU 2102

EDHI672 **Modes of Inquiry in Education Research**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: EDHI672, EDPL672, or EDPS672. Formerly: EDPL672.

Introduction to modes of inquiry appropriate to research on issues and problems in education. Examination of qualitative, quantitative and mixed research methods and designs with a focus on related standards of quality.

0101	Steven Klees	Seats (Total: 20)
	M 7:00pm - 9:45pm	EDU 1121

EDHI679 **Master's Seminar**

Credits: 3 Grading Method: Regular, Audit

Directed study for master's degree students writing seminar papers.

Contact department for information to register for this course.

EDHI682 **Ecological Ethics and Education**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: EDHI682 or EDHI788E. Formerly: EDHI788E.

An exploration of the paradigms, approaches, and ways of knowing offere through ecological ethics and environmental sustainability education.

0101	Jing Lin	Seats (Total: 20)
	W 4:15pm - 7:00pm	EDU 1315

EDHI689 **Practicum In Educational Administration and Supervision**

(Perm req) Credits: 1-3 Grading Method: Sat-Fail

Promotes skill development in managerial, leadership and supervisory areas. Practicum is based on results of diagnostic instruments and an individual professional development plan.

Contact department for information to register for this course.

EDHI750 **International Higher Education**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: EDHI750, EDPL750, or EDPS750. Formerly: EDPL750.

Comparison of higher education systems in several countries, and of the problems and issues in higher education faced by these countries.

0101	Jing Lin	Seats (Total: 20)
	Th 4:15pm - 7:00pm	EDU 1315

EDHI752 **State Systems of Higher Education**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: EDHI752, EDPL752, or EDPS752. Formerly: EDPL752.

Creation, operation, alteration and evaluation of state systems of higher education. Campus autonomy versus public accountability. Analysis of topics such as state planning, budget and program review, and administration of student aid and federal programs.

0101	Marvin Titus	Seats (Total: 15)
	W 4:15pm - 7:00pm	ASY 3215

EDHI788M **Special Topics in Education Policy and Administration; Systems Innovation**

Credits: 3 Grading Method: Regular, Audit

Special and intensive treatment of current topics and issues in education policy and administration.

Contact department for information to register for this course.

EDHI789 **Doctoral Practicum in Administration and Supervision**

Credits: 1-3 Grading Method: Sat-Fail

Experiential activities designed to enhance student skills. Based on Individual Professional Development Plan for each student.

Contact department for information to register for this course.

EDHI798 **Special Problems in Education**

(Perm req)

Credits: 1-6 Grading Method: Regular, Audit

Master's, AGS, or doctoral candidates who desire to pursue special research problems under the direction of their advisors may register for credit under this number.

Contact department for information to register for this course.

EDHI799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

EDHI888 **Apprenticeship in Education**

Credits: 1-8 Grading Method: Regular, Audit

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate-seeking graduate students.

0101	Sharon Fries-Britt Contact instructor or department for details.	Seats (Total: 5)
2701	Marvin Titus Contact instructor or department for details.	Seats (Total: 2)
3301	Nelly Stromquist Contact instructor or department for details.	Seats (Total: 10)

EDHI889 **Internship in Education**

(Perm req)

Credits: 3-8 Grading Method: Regular, Audit

Internship experiences at a professional level of competence in a particular role with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students advanced to candidacy for doctoral degree.

Contact department for information to register for this course.

EDHI898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

EDHI899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Registration required to the extent of 6-9 hours for an Ed.D. Project and 12-18 hours for a Ph.D. Dissertation.

Contact department for information to register for this course.

EDMS Measurement, Statistics, and Evaluation Fall 2018

EDMS451 **Introduction to Educational Statistics**

Credits: 3 Grading Method: Regular, Audit General Education: FSAR

Restriction: Sophomore standing or higher. Credit only granted for: BIOM301, BMGT230, CCJS200, ECON230, ECON321, EDMS451, GEOG306, GEOL351, GVPT422, INST314, JOUR405, PSYC200 or SOCY201. (These courses do not necessarily meet the same major requirements-check with your advisor to see which of these courses will count for your major).

Introduction to statistical reasoning; location and dispersion measures; computer applications; regression and correlation; formation of hypotheses tests; t-test; one-way analysis of variance; analysis of contingency tables.

0101	Gregory Hancock	Seats (Total: 200)
	TuTh 2:00pm - 3:15pm	BRB 1101

EDMS610 **Classroom Assessment and Evaluation**

Credits: 3 Grading Method: Regular, Audit

Develop the understandings and skills needed to validly, reliably, and accurately assess student learning and to provide focused leadership in the area of classroom assessment.

Contact department for information to register for this course.

EDMS623 **Applied Measurement: Issues and Practices**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EDMS410. And EDMS645; or students who have taken courses with comparable content may contact the department.

Measurement theory and its application at an intermediate level; test development, validation and interpretation; issues and recent developments in measurement.

0101	Yang Liu Th 4:15pm - 7:00pm	Seats (Total: 25) EDU 2101

EDMS645 **Quantitative Research Methods I**

Credits: 3 Grading Method: Regular, Audit

Research design and statistical applications in educational research: data representation; descriptive statistics; estimation and hypothesis testing. Application of statistical computer packages is emphasized.

0101	Alice Donlan W 4:15pm - 7:00pm	Seats (Total: 30) ESJ 1215

EDMS646 **General Linear Models I**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EDMS645; or an equivalent introductory statistics course.

A first post-introductory inferential statistics course, with emphasis on analysis of variance procedures and designs from within the general linear modeling framework. Assignments include student analysis of education and related data; application of statistical software packages is emphasized.

0101	Yang Liu Tu 4:15pm - 7:00pm	Seats (Total: 30) EDU 1121

EDMS651 **General Linear Models II**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EDMS646; or students who have taken courses with comparable content may contact the department.

Multiple regression and correlation analysis; trend analysis; hierarchical and stepwise procedures; logistic regression; software for regression analysis.

0101	Ji Seung Yang W 4:15pm - 7:00pm	Seats (Total: 30) EDU 0220

EDMS655 **Introduction to Multilevel Modeling**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EDMS651; or students who have taken courses with comparable content may contact the department.

Introduction to multilevel models and methodology as strategies for modeling change and organizational effects.

0101	Tracy Sweet	Seats (Total: 20)
	W 4:15pm - 7:00pm	JMZ 1224

EDMS657 **Exploratory Latent and Composite Variable Methods**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EDMS651.

Development of models for exploratory factor analysis and their practical applications. Additional topics will draw from latent class analysis, cluster analysis, mixture models, canonical correlation, multidimensional scaling, and configural frequency analysis.

0101	Gregory Hancock	Seats (Total: 30)
	Tu 4:15pm - 7:00pm	EDU 0220

EDMS738G **Seminar in Special Problems in Measurement; Assessment and Evaluation for School Leaders: Part II**

Credits: 3 Grading Method: Regular, Audit

An opportunity for students with special interests to focus in depth on contemporary topics in measurement. Topics to be announced, but will typically be related to applied and theoretical measurement.

Contact department for information to register for this course.

EDMS738K **Seminar in Special Problems in Measurement; Multidimensional Item Response Theory Models**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

An opportunity for students with special interests to focus in depth on contemporary topics in measurement. Topics to be announced, but will typically be related to applied and theoretical measurement.

0101	Ji Seung Yang M 4:15pm - 7:00pm	Seats (Total: 20) EDU 3233

EDMS738L **Seminar in Special Problems in Measurement; Classification & Cognitive Diagnosis**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

An opportunity for students with special interests to focus in depth on contemporary topics in measurement. Topics to be announced, but will typically be related to applied and theoretical measurement.

0101	Hong Jiao Tu 4:15pm - 7:00pm	Seats (Total: 20) EDU 3315

EDMS779M **Seminar in Applied Statistics; Mathematical Foundations and Simulation Techniques**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Enrollment restricted to students with a major or minor in measurement, statistics or evaluation. Seminar topics will be chosen by individual student interest.

0101	Jeffrey Harring Th 4:15pm - 7:00pm	Seats (Total: 20) EDU 3315

EDMS798 **Special Problems in Education**

(Perm req)

Credits: 1-6 Grading Method: Regular, Audit

Master's, EDMS majors, or doctoral candidates who desire to pursue special research problems under the direction of their advisors may register for credit under this number.

Prerequisite: permission of department.

Contact department for information to register for this course.

EDMS799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Registration required to the extent of 6 credits.

Contact department for information to register for this course.

EDMS889 **Internship in Measurement and Statistics**

Credits: 3-8 Grading Method: Regular, Audit

Provides internship experiences at a professional level of competence in a particular role with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students advanced to candidacy for doctoral degree.

Contact department for information to register for this course.

EDMS898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

EDMS899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Registration required to the extent of 12 credits.

Contact department for information to register for this course.

EDSP Education, Special Fall 2018

EDSP210 **Introduction to Special Education**

(Perm req)

Credits: 3 Grading Method: Regular, Audit General Education: DVUP

Restriction: Sophomore standing or lower. Credit only granted for: EDSP210 or EDSP470.

Characteristics and needs of individuals receiving special education an related services. Current issues and practices in special education.

0101	Yewon Lee TuTh 5:00pm - 6:15pm	Seats (Total: 10) ASY 2309
0301	Stacey Williams MW 12:30pm - 1:45pm	Seats (Total: 10) EDU 3315

EDSP211 **Introduction to Special Education**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DVUP

Restriction: Sophomore standing or lower; and permission of EDUC-Counseling, Higher Education and Special Education department. Credit only granted for: EDSP210 or EDSP470.

An introduction to the field of special education. Students examine historical foundations, including legislation; review components necessary for effective service delivery; and develop an understanding of the role of collaboration and consultation with parents, school personnel and other professionals. In addition, students are introduced to the nature and characteristics of various disabilities and review current issues in the field including overrepresentation of minority students in special education, inclusion, and federal and state assessment mandates. Current topics are addressed including evidence-based practices, universal design for learning, and individualization and differentiation of instruction..

0101	Joan Lieber M 1:00pm - 3:45pm	Seats (Total: 25) EDU 1315

EDSP220 **Disability in Community: Access, Accommodation, and Adaptation**

Credits: 3 Grading Method: Regular General Education: DSSP, DVCC

Examines the concept of disability in a variety of community settings. Drawing on classic and contemporary readings in psychology, sociology and special education, the course will couple conceptual and historical understanding of disability with first-hand service-learning experiences in the community. Students will develop a plan in several phases that encompasses principles of Universal Design for Living/Learning (UDL) to study and participate in community-based activities.

0101	Carolyn Fink W 9:00am - 10:30am Class time/details on ELMs	Seats (Total: 28) EDU 3315 ONLINE

EDSP289I **Disability: From Stigma and Sideshow to Mainstream and Main Street**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SB, D General Education: DSHS, DVUP, SCIS

0101	Kelli Cummings, Peter Leone TuTh 12:30pm - 1:45pm	Seats (Total: 60) ESJ 0215

EDSP321 **The Young Child As Scientist**

Credits: 3 Grading Method: Regular

Prerequisite: EDSP423, EDHD431, and EDSP315; and track 1: Must have completed EDSP430 and EDSP433; OR Track 2: Must have completed EDHD415 and EDHD424. Corequisite: EDHD322, EDHD323, EDSP417, EDHD441, EDHD442, EDHD443, and EDHD444.

A theoretical and pedagogical framework for evidence-based inclusive science instruction in inclusive early childhood classrooms. Examination of principles of inquiry-based science learning and develop strategies for helping children acquire fundamental problem-solving skills that may be applied to understanding a wide array of science content. Assessment strategies for evaluating the achievement of science objectives, and the achievement for all children will be addressed. Includes field experience.

0101	Joan Lieber	Seats (Total: 28)
	W 8:00am - 10:30am	EDU 1107

EDSP376 **Fundamentals of Sign Language**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DVCC

Receptive and expressive skills in American Sign Language. Examination of the causes of deafness, characteristics of deaf education, and aspects of the culture of the deaf community.

0101	Michael Dunham	Seats (Total: 30)
	MW 5:00pm - 6:15pm	TYD 0111

EDSP400 **Instruction of Students with Severe Disabilities I**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in Special Education program. Also offered as: EDSP602. Credit only granted for: EDSP400 or EDSP602.

Functional assessment procedures and instructional methods for students with severe disabilities.

0101	Frances Kohl	Seats (Total: 40)	
	W 4:15pm - 6:15pm Tu 9:00am - 11:00am	EDU 1107 Location: TBA	Lab

EDSP401 **Teaching Students with Disabilities in Elementary Classrooms**

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Permission of EDUC-Special Education department. Credit only granted for: EDSP401 or EDSP499F. Formerly: EDSP499F.

This course is designed for elementary education majors to prepare for teaching students with disabilities in elementary classrooms. The course examines the legal requirements for general education teachers in the public schools including best practices for participating in the Individual Education Program (IEP) team process, and understanding Response to Intervention (RTI) as a approach to the early identification and support of students with learning and behavior needs. Information is provided on the characteristics of students who have been identified as having high incidence disabilities (e.g., learning disabilities, attention deficit hyperactivity disorder, speech and language delays, emotional or behavioral disorders, and other health impairments). The course then provides information on universal design (UDL) principles for learning, instructional suggestions to include students with disabilities in the general classroom, co-teaching and methods for integrating technology and assistive technology to benefit all students.

0101	Carolyn Fink M 4:15pm - 5:30pm Th 11:00am - 12:15pm	Seats (Total: 30) TWS 0310 EDU 3233	 Discussion
0102	Carolyn Fink M 4:15pm - 5:30pm Tu 11:00am - 12:15pm	Seats (Total: 30) TWS 0310 EDU 3233	 Discussion
0103	Carolyn Fink M 4:15pm - 5:30pm W 10:00am - 11:15am	Seats (Total: 30) TWS 0310 KNI 1105	 Discussion

EDSP404 **Education of Students with Autism Spectrum Disorders**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of EDUC-Counseling, Higher Education and Special Education department. Also offered as: EDSP604. Credit only granted for: EDSP404 or EDSP604.

Characteristics, needs, assessment, and educational methods for students with autism spectrum disorders.

0101	Gulnoza Yakubova W 4:15pm - 7:00pm	Seats (Total: 40) EDU 1121

EDSP411 **Universal Design for Learning**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: EDSP210 or EDSP470. Restriction: Must be in Special Education program.

Universal Design for Learning addresses a foundation framework for teacher candidates to learn how to design and implement instruction for a broad range of students with diverse needs rather than rely exclusively on accommodations to instruction for some students.

0101	Dawn Martin	Seats (Total: 28)
	Th 1:15pm - 4:00pm	EDU 3236

EDSP413 **Behavior and Classroom Management in Special Education**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in Special Education program. Also offered as: EDSP613. Credit only granted for: EDSP413, or EDSP613.

Use of applied behavior analysis for assessment of behavior and learnin environments. Design of behavior and classroom management of students in special education.

0101	Peter Leone, Kelli Cummings	Seats (Total: 40)
	Tu 4:15pm - 7:00pm	EDU 2119

EDSP417 **Reading Diagnosis and Assessment**

Credits: 3 Grading Method: Regular

Prerequisite: EDSP423, EDHD431, and EDSP315; and track 1: Must have completed EDSP430 and EDSP433; OR Track 2: Must have completed EDHD415 and EDHD424. Corequisite: EDHD322, EDHD323, EDSP321, EDHD441, EDHD442, EDHD443, and EDHD444.

Reading Diagnosis and Assessment prepares teacher candidates to assess children in general and special early childhood educations settings in the areas of reading and writing in order to plan for instruction. The course will focus on diagnostic, screening, progress monitoring, and outcome assessments in early and beginning literacy. The course is designed to provide participants with the knowledge and skills necessary to collect and use a wide range of assessment data in general education and special education settings. Includes field experience.

0101	Cindy Sherman	Seats (Total: 28)
	M 1:00pm - 3:45pm	EDU 1121

EDSP443 **Language and Literacy Acquisition in Children with Disabilities**

Credits: 3 Grading Method: Regular

Restriction: Must be in Special Education program. Additional information: This course is the first of four reading courses required by the Maryland State Department of Education for teacher certification in Special Education.

Language and literacy acquisition and characteristics of typical and atypical language development in supporting students with reading and writing disabilities.

0101	Nicole Abera	Seats (Total: 40)
	W 1:15pm - 4:00pm	EDU 1121

EDSP451 **Curriculum and Instruction: Elementary/Middle Special Education**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in Special Education program. Also offered as: EDSP652. Credit only granted for: EDSP451 or EDSP652.

Methods for instruction of students with disabilities in the general education curriculum. Collaboration with other professionals is included.

0101	Sarah Mallory	Seats (Total: 40)	
	M 1:15pm - 3:15pm Th 9:00am - 11:00am	EDU 1107 Location: TBA	Lab

EDSP452 **Internship I: Elementary/Middle Special Education**

Credits: 2-4 Grading Method: Regular, Audit General Education: DSSP

Restriction: Must be in Special Education program. Also offered as: EDSP692. Credit only granted for: EDSP452 or EDSP692.

Field experience in elementary/middle school special education.

0101	Stacey Williams	Seats (Total: 20)	
	F 10:30am - 12:00pm MTuWTh 8:00am - 1:00pm	EDU 3315 Location: TBA	Lab

EDSP470 **Introduction to Special Education**

Credits: 3 Grading Method: Regular, Audit General Education: DVUP

Restriction: Must not have completed EDSP210. Credit only granted for: EDSP210 or EDSP470.

Designed to give an understanding of the needs of all types of exceptional children.

0101	Yewon Lee	Seats (Total: 40)
	TuTh 5:00pm - 6:15pm	ASY 2309

0301	Stacey Williams	Seats (Total: 40)
	MW 12:30pm - 1:45pm	EDU 3315

EDSP484 **Reading and Writing Instruction in Special Education II**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EDSP416. Restriction: Must be in Special Education program. Also offered as: EDSP684. Credit only granted for: EDSP484 or EDSP684.

Focus on the development of reading and writing programs for students in special education. Builds on foundations established in EDSP416.

0101	Dawn Martin	Seats (Total: 40)
	Tu 1:15pm - 3:45pm	PLS 1119

EDSP487 **Family Partnerships in Special Education**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in Special Education program. Also offered as: EDSP687. Credit only granted for: EDSP487 or EDSP687.

Strategies for communicating and working with families of students with disabilities.

0101	Wanda Pittman-Gregory	Seats (Total: 40)
	M 4:15pm - 7:00pm	EDU 1121

EDSP495 **Internship II: Elementary/Middle Special Education**

Credits: 6-12 Grading Method: Sat-Fail

Corequisite: EDSP490. Restriction: Must be in Special Education program; or must be in one of the following programs (Special Education (Doctoral); Special Education (Master's)). Also offered as: EDSP695. Credit only granted for: EDSP 495 or EDSP 695.

Student teaching, full-time for 15 weeks, with elementary or middle school students with disabilities.

Corequisite: EDSP490. Restriction: Must be in Special Education program; or must be in one of the following programs (Special Education (Doctoral); Special Education (Master's). Also offered as EDSP695. Credit only granted for EDSP 495 or EDSP 695. Student teaching, full-time for 15 weeks, with elementary or middle school students with disabilities. Students must pay a $750.00 lab fee.

0101	Stacey Williams	Seats (Total: 2)
	Contact instructor or department for details.	
	Contact department or instructor for details.	

EDSP498 **Special Problems in Special Education**

(Perm req)

Credits: 1-6

Grading Method: Regular, Pass-Fail, Audit

Available only to education majors who have definite plans for individual study of approved problems. Credit according to extent of work.

Special education majors only.

Contact department for information to register for this course.

EDSP498B **Special Problems in Special Education; Career Development and Advising**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Available only to education majors who have definite plans for individual study of approved problems. Credit according to extent of work.

0101	Glenn Kasten-Sportes, Jessica Chew	Seats (Total: 15)
	F 11:30am - 12:20pm	EDU 2102
	Contact instructor or department for details.	

EDSP499 **Workshops, Clinics, and Institutes in Special Education**

Credits: 1-6

Grading Method: Regular, Pass-Fail, Audit

The following type of educational enterprise may be scheduled under this course heading: workshops conducted by the special education department (or developed cooperatively with other departments, colleges and universities) and not otherwise covered in the present course listing. Laboratories, and special education centers; institutes developed around specific topics or problems and intended for designated groups such as school superintendents, principals and supervisors.

0901	Peter Leone	Seats (Total: 5)
	Contact instructor or department for details.	

EDSP602 **Instruction of Students with Severe Disabilities I**

Credits: 3

Grading Method: Regular, Audit

Restriction: Must be in Special Education (Master's) program. Credit only granted for: EDSP400 or EDSP602.

Functional assessment procedures and instructional methods for students with severe disabilities.

0101	Frances Kohl	Seats (Total: 40)	
	W 4:15pm - 6:15pm Tu 9:00am - 11:00am	EDU 1107 Location: TBA	Lab

EDSP604 **Education of Students with Autism Spectrum Disorder**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of EDUC-Counseling, Higher Education and Special Education department. Also offered as: EDSP604, EDSP604. Credit only granted for: EDSP404 or EDSP604.

Characteristics, needs, assessment, and educational methods for student diagnosed as autistic or having a pervasive development disorder.

0101	Gulnoza Yakubova	Seats (Total: 40)
	W 4:15pm - 7:00pm	EDU 1121

EDSP613 **Behavior and Classroom Management in Special Education**

Credits: 3 Grading Method: Regular

Restriction: Must be in Special Education (Doctoral) program; or must be in Special Education (Master's) program; or permission of instructor. Also offered as: EDSP413. Credit only granted for: EDSP413 or EDSP613.

Applied behavior analysis for assessment of behavior and learning environments. Behavior and classroom management strategies for students in special education.

0101	Peter Leone, Kelli Cummings	Seats (Total: 40)
	Tu 4:15pm - 7:00pm	EDU 2119

EDSP625 **Seminar on Severely Handicapping Conditions**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of EDUC-Counseling, Higher Education and Special Education department.

Research and theories relevant to the education of severely handicapped individuals.

0101	Frances Kohl M 4:15pm - 7:00pm	Seats (Total: 15) Location: TBA

EDSP652 **Curriculum and Instruction: Elementary Special Education**

Credits: 3 Grading Method: Regular, Audit

Also offered as: EDSP652, EDSP652. Credit only granted for: EDSP451 or EDSP652.

Methods for instruction of students with disabilities in the general education curriculum. Collaboration with other professionals is included.

For EDSP majors only.

0101	Sarah Mallory M 1:15pm - 3:15pm Th 9:00am - 11:00am	Seats (Total: 40) EDU 1107 Location: TBA	Lab

EDSP671 **Qualitative Methodologies in Special Education**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EDSP600. Restriction: Permission of EDUC-Counseling, Higher Education and Special Education department.

Design and evaluation of qualitative research in special education across disabilities and ages.

Class will meet on: Aug 29, Sept 5, Oct 3, Oct 10, Oct 24, Nov 14, Nov 14, Nov 28, and Dec 5.

0101	Paula Beckman W 4:15pm - 7:00pm Class time/details on ELMs	Seats (Total: 15) KNI 1105 ONLINE

EDSP678B **Seminar in Special Education; Technology with Students with Autism Spectrum Disorders**

Credits: 3 Grading Method: Regular, Audit

Contact department for information to register for this course.

EDSP684 **Reading and Writing Instruction in Special Education II**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: EDSP616. Restriction: Permission of EDUC-Counseling, Higher Education and Special Education department. Also offered as: EDSP484. Credit only granted for: EDSP484 or EDSP684.

Development of effective reading and writing programs for students receiving special education services. Builds on the foundation established in EDSP 616.

0101	Dawn Martin	Seats (Total: 40)
	Tu 1:15pm - 3:45pm	PLS 1119

EDSP687 **Family Partnerships in Special Education**

Credits: 3 Grading Method: Regular

Restriction: Must be in Special Education (Doctoral) program; or must be in Special Education (Master's) program. Also offered as: EDSP487. Credit only granted for: EDSP487 or EDSP687.

Strategies for communicating and working with families of students with disabilities.

0101	Wanda Pittman-Gregory	Seats (Total: 40)
	M 4:15pm - 7:00pm	EDU 1121

EDSP690 **Teacher Candidate Research Seminar in Special Education**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in Special Education (Doctoral) program; or must be in Special Education (Master's) program.

Required seminar for master's certification teacher candidates in special education focusing on research methods and applications with students having disabilities.

Contact department for information to register for this course.

EDSP692 **Graduate Internship I: Elementary/Middle Special Education**

Credits: 2-4 Grading Method: Regular, Audit

Restriction: Must be in Special Education (Master's) program. Credit only granted for: EDSP452 or EDSP692.

Field experience in elementary/middle school special education.

0101	Stacey Williams	Seats (Total: 5)
	F 10:30am - 12:00pm MTuWTh 8:00am - 1:00pm	EDU 3315 Location: TBA Lab

EDSP695 **Graduate Internship II: Elementary/Middle Special Education**

Credits: 6-11 Grading Method: Regular, Audit

Corequisite: EDSP690. Recommended: Must be in Special Education (Master's) program EDSPM Special Education. Restriction: Must be in Special Education (Master's) program. Credit only granted for: EDSP495, EDSP695 or EDSP888A.

Student teaching, full-time for 15 weeks, with elementary or middle school students with disabilities.

Corequisite: EDSP490. Restriction: Must be in Special Education program; or must be in one of the following programs (Special Education (Doctoral); Special Education (Master's). Also offered as EDSP495. Credit only granted for EDSP 495 or EDSP 695. Student teaching, full-time for 15 weeks, with elementary or middle school students with disabilities. Students must pay a $750.00 lab fee.

0101	Stacey Williams	Seats (Total: 2)
	Contact instructor or department for details.	
	Contact department or instructor for details.	

EDSP798 **Special Problems in Special Education**

(Perm req)

Credits: 1-6 Grading Method: Regular, Audit

Intended for Master's, AGS, or doctoral students in education who desire to pursue a research problem.

Special education majors only.

Contact department for information to register for this course.

EDSP798E **Special Problems in Special Education; Families Course Project**

Credits: 1 Grading Method: Regular, Audit

Intended for Master's, AGS, or doctoral students in education who desire to pursue a research problem.

Contact department for information to register for this course.

EDSP799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Registration required to the extent of six hours for Master's thesis.

Special education majors only.

Contact department for information to register for this course.

EDSP875 **Policy Issues Affecting Individuals with Disabilities**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of instructor; or must be in Special Education (Doctoral) program; or must be in Special Education (Master's) program.

An analysis of current educational and disability issues and policies pertaining to children, youth, and adults with disabilities.

0101	Philip Burke	Seats (Total: 25)
	Th 4:15pm - 7:00pm	Location: TBA

EDSP888 **Apprenticeship in Special Education**

(Perm req)

Credits: 1-8 Grading Method: Regular, Audit

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate- seeking graduate students.

Contact department for information to register for this course.

EDSP888A **Apprenticeship in Special Education; Apprenticeship in College Teaching**

Credits: 3 Grading Method: Regular

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate- seeking graduate students.

Contact department for information to register for this course.

EDSP889 **Internship in Special Education**

(Perm req)

Credits: 3-8 Grading Method: Regular, Audit

Internship experiences at a professional level of competence in a particular role with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students advanced to candidacy for doctoral degree.

Special education majors only.

Contact department for information to register for this course.

EDSP898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

EDSP899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Registration required to the extent of 6-9 hours for an Ed.D. Project and 12-18 hours for a Ph.D. dissertation.

Special education majors only.

Contact department for information to register for this course.

EDUC Education Fall 2018

EDUC388 **Special Topics in Education; Guided Experience In College Teaching**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

0401	Sharon Vanwright	Seats (Total: 20)
	Contact instructor or department for details. Contact instructor or department for details.	
	Relates to the academic achievement program and should be taken concurrently with EDCI498, section 6601.	
SG91	Tirza Bartels, Mary Gallagher	Seats (Total: 12)
	W 2:00pm - 3:30pm Contact instructor or department for details.	Location: TBA
	Restricted to students in the Guided Study Sessions (GSS program at the Universities at Shady Grove). Prerequisite: Permission of the Associate Director of the Center for Academic Success (CAS) at USG.	

EDUC388E **Special Topics in Education; Controversial Issues in Education Reform**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

0101	John King	Seats (Total: 30)
	M 4:15pm - 7:00pm	TWS 1320

EDUC388T **Special Topics in Education; Guided Experience in College Teaching - UTA**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

0101	Jessica Haddaway M 5:00pm - 7:00pm Class time/details on ELMs	Seats (Total: 30) JMZ 0205 ONLINE	Discussion

EDUC388U **Special Topics in Education; New Student Programs**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

0201	Allison Gibeily, Gerry Strumpf M 5:00pm - 7:00pm Contact instructor or department for details. *Restricted to students who are teaching UNIV100 or UNIV101.*	Seats (Total: 15) COL 1102
0202	Maya Dawit Tu 5:00pm - 7:00pm Contact instructor or department for details. *Restricted to students who are teaching UNIV100 or UNIV101.*	Seats (Total: 15) COL 1102
0501	Stacy Woycheck, Alicia Thomas W 5:00pm - 7:00pm Contact instructor or department for details.	Seats (Total: 20) SYM 1110

EDUC498 **Selected Topics in Education**

(Perm req)

Credits: 1-3 Grading Method: Regular

Current topics and issues in education.

0101	Jessica Haddaway Contact instructor or department for details.	Seats (Total: 30)

EDUC702 **Applied Research Design for Education Leaders**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of EDUC-College of Education. Credit only granted for: EDUC702 or EDHI702. Formerly: EDHI 702.

Emphasizes quantitative and qualitative methodologies to investigate a range of educational problems. Designed for EdD doctoral students.

Contact department for information to register for this course.

EDUC703 **Conducting Library Research for Dissertations**

(Perm req)

Credits: 2

Grading Method: Regular, Audit

Restriction: Permission of EDUC-College of Education.

This course is designed to provide students in the Ed.D.doctoral program with the skills necessary to conduct library research in preparation for developing the literature review for the Dissertation in Practice.

Contact department for information to register for this course.

EDUC704 **Introduction to Writing the Dissertation in Practice**

Credits: 2

Grading Method: Regular, Audit

Restriction: Permission of EDUC-College of Education.

This course is designed to provide students in the Ed.D. program with specific strategies and skills needed to complete their Dissertation of Practice. Skills include constructing a problem statement and developing a cohesive argument for a proposed solution.

Contact department for information to register for this course.

EDUC740 **Managing Educational Organizations in a Diverse Society**

Credits: 4

Grading Method: Regular, Audit

Restriction: Permission of EDUC-College of Education. Credit only granted for: EDUC740 or EDHI740. Formerly: EDHI740.

Contemporary social and cultural influences that impact on the management of schools and school systems in a diverse society. The effects on schools and school systems of changes in the economy, family structure, demographics and technology will be examined.

Contact department for information to register for this course.

EDUC760 **The Human Dimension in Administration**

Credits: 4

Grading Method: Regular, Audit

Restriction: Permission of EDUC-College of Education. Credit only granted for: EDUC760 or EDHI760. Formerly: EDHI760.

Course focuses on theory, research findings, and current practices in managing human resources in educational organizations. Issues related to performance evaluations, professional development, and legal and ethical standards are addressed.

Contact department for information to register for this course.

EDUC767 **Seminar on School District Leadership**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of EDUC-College of Education. Credit only granted for: EDUC767 or EDHI767. Formerly: EDHI767.

Examination of theory and research related to school district leadership with focus on improvement sciences. Course uses improvement science model to understand organizational, political, community, instructional problems of practice.

Contact department for information to register for this course.

EDUC888 **Applied Apprenticeship in Education**

Credits: 1-3 Grading Method: Regular, Audit

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals.

Contact department for information to register for this course.

EDUC888E **Applied Apprenticeship in Education; Improvement Science**

Credits: 1 Grading Method: Regular, Audit

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals.

Contact department for information to register for this course.

EDUC888L **Applied Apprenticeship in Education; Introduction to Library Research**

Credits: 2 Grading Method: Regular, Audit

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals.

Contact department for information to register for this course.

EDUC888W **Applied Apprenticeship in Education; Introduction to Scholarly Writing**

Credits: 2 Grading Method: Regular, Audit

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals.

Contact department for information to register for this course.

EDUC898 **Pre-Candidacy Research**

Credits: 2-4 Grading Method: Regular

Pre-Candidacy Research

Contact department for information to register for this course.

EDUC899 **Dissertation of Practice Research**

(Perm req)

Credits: 1-6 Grading Method: Regular, Audit

Registration required to the extent of 6-9 hours for an Ed.D. Dissertation.

PGCPS II EdD Outreach Program. Registration restricted to program.

Contact department for information to register for this course.

ENAE Engineering, Aerospace Fall 2018

ENAE100 **The Aerospace Engineering Profession**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Recommended: ENES100 and MATH140.

Overview of salient aspects of professional practice of Aerospace Engineering. Introduction to the range of technical expertise needed to succeed in the profession and the objectives of the various parts of the Aerospace Engineering program at UMCP in supporting students' efforts in gaining the required knowledge and skills. Familiarization with departmental faculty and their areas of research, creation of links with other students, professional society student chapters, and available resources. Discussion of ethical issues, business requirements, and their interactions with technical developments.

0101	Norman Wereley	Seats (Total: 160)
	Tu 12:30pm - 1:45pm	EGR 1202

ENAE202 **Computing Fundamentals for Engineers**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Corequisite: Must be concurrently enrolled in MATH141. Restriction: Permission of ENGR-Aerospace Engineering department. Credit only granted for: ENAE202 or ENME202.

Introduction to computational tools for the solution of engineering problems. C++ & MATLAB programming including branching and loops, functions, file handling, arrays, and data structures. Students will be introduced to object-oriented programming, basic computing, algorithms, and principles of software engineering.

0104	Johan Larsson	Seats (Total: 25)	
	MW 11:00am - 11:50am W 2:00pm - 3:50pm	BRB 1101 EGR 0312	Lab
	Restriction: For ENAE majors and permission of department.		
0105	Johan Larsson	Seats (Total: 10)	
	MW 11:00am - 11:50am Th 3:00pm - 4:50pm	BRB 1101 Location: TBA	Lab
	Restriction: For ENFP majors and permission of department.		

ENAE283 **Introduction to Aerospace Systems**

Credits: 3 Grading Method: Regular

Prerequisite: PHYS161, MATH141, and ENES102. Corequisite: PHYS261 and PHYS260. Restriction: Must be in Engineering: Aerospace program. Credit only granted for: (ENAE281 and ENAE282) or ENAE283. Formerly: ENAE281 and ENAE282.

Introduction to airplanes and space vehicles as aerospace systems. Fundamentals that describe these systems. Elements of aerodynamics, airfoils and wings. Airplane performance, stability and control. Aircraft and rocket propulsion. Fundamentals of orbital motion. Aspects of vehicle conceptual design.

0101	Mary Bowden	Seats (Total: 66)
	TuTh 9:30am - 10:45am	CHE 2110
0102	Andrew Becnel	Seats (Total: 44)
	TuTh 9:30am - 10:45am	ANS 0412

ENAE283H **Introduction to Aerospace Systems**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: PHYS161, MATH141, and ENES102. Corequisite: PHYS261 and PHYS260. Restriction: Must be in Engineering: Aerospace program. Credit only granted for: (ENAE281 and ENAE282) or ENAE283. Formerly: ENAE281 and ENAE282.

Introduction to airplanes and space vehicles as aerospace systems. Fundamentals that describe these systems. Elements of aerodynamics, airfoils and wings. Airplane performance, stability and control. Aircraft and rocket propulsion. Fundamentals of orbital motion. Aspects of vehicle conceptual design.

0101	Alison Flatau TuTh 9:30am - 10:45am	Seats (Total: 35) EGR 0135	

ENAE301 **Dynamics of Aerospace Systems**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS271, MATH461, PHYS270, MATH246, ENAE283, ENAE202, ENES102, and MATH241. Restriction: Must be in Engineering: Aerospace program; or permission of ENGR-Aerospace Engineering department.

Kinematics and dynamics of three dimensional motion of point masses and rigid bodies with introduction to more general systems. Primary emphasis on Newtonian methods. Practice in numerical solutions and computer animation of equations of motion using MATLAB.

0101	Derek Paley TuTh 12:30pm - 1:45pm F 1:00pm - 1:50pm	Seats (Total: 42) JMZ 0220 CHM 1224	 Lab
0102	Derek Paley TuTh 12:30pm - 1:45pm F 2:00pm - 2:50pm	Seats (Total: 42) JMZ 0220 CHM 1224	 Lab
0103	Derek Paley TuTh 12:30pm - 1:45pm F 3:00pm - 3:50pm	Seats (Total: 42) JMZ 0220 CHM 1224	 Lab
0104	Derek Paley TuTh 12:30pm - 1:45pm F 4:00pm - 4:50pm	Seats (Total: 42) JMZ 0220 CHM 1224	 Lab

ENAE311 **Aerodynamics I**

Credits: 3 Grading Method: Regular

Prerequisite: PHYS271, MATH461, PHYS270, MATH246, ENAE283, ENES220, ENAE202, MATH241, and ENES232. Restriction: Must be in Engineering: Aerospace program; or permission of ENGR-Aerospace Engineering department. And junior standing or higher.

Fundamentals of aerodynamics. Elements of compressible flow. Normal and oblique shock waves. Flows through nozzles, diffusers and wind tunnels. Elements of the method of characteristics and finite difference solutions for compressible flows. Aspects of hypersonic flow.

0101	Christopher Cadou TuTh 9:30am - 10:45am	Seats (Total: 130) ESJ 1202	

ENAE311H **Aerodynamics I**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail

Prerequisite: PHYS271, MATH461, PHYS270, MATH246, ENAE283, ENES220, ENAE202, MATH241, and ENES232. Restriction: Must be in Engineering: Aerospace program; or permission of ENGR-Aerospace Engineering department. And junior standing or higher.

Fundamentals of aerodynamics. Elements of compressible flow. Normal and oblique shock waves. Flows through nozzles, diffusers and wind tunnels. Elements of the method of characteristics and finite difference solutions for compressible flows. Aspects of hypersonic flow.

0101	Stuart Laurence TuTh 9:30am - 10:45am	Seats (Total: 35) ITV 1111	

ENAE362 **Aerospace Instrumentation and Experimentation**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH246 and ENAE283. Restriction: Must be in Engineering: Aerospace program; and junior standing or higher.

Basic instrumentation electronics including DC electronics, AC electronics, semiconductors, electro-optics and digital electronics. Sensing devices used to carry out experiments in Aerospace Engineering includes metrology, machine tool measurements, bridge circuits, optical devices, and introduction to computer based data acquisition. Topics chosen to support measurements in aerodynamics, flight structures and flight control.

0101	Allen Winkelmann MW 1:00pm - 1:50pm M 2:00pm - 5:00pm	Seats (Total: 28) EGR 1202 EGL 0123	 Lab
0102	Allen Winkelmann MW 1:00pm - 1:50pm Tu 2:00pm - 5:00pm	Seats (Total: 28) EGR 1202 EGL 0123	 Lab
0103	Allen Winkelmann MW 1:00pm - 1:50pm W 2:00pm - 5:00pm	Seats (Total: 28) EGR 1202 EGL 0123	 Lab

0104	Allen Winkelmann MW 1:00pm - 1:50pm Th 2:00pm - 5:00pm	Seats (Total: 28) EGR 1202 EGL 0123	 Lab
0105	Allen Winkelmann MW 1:00pm - 1:50pm W 9:00am - 12:00pm	Seats (Total: 28) EGR 1202 EGL 0123	 Lab

ENAE380 **Flight Software Systems**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENAE283 and ENAE202. Restriction: Must be in Engineering: Aerospace program; and junior standing or higher.

Avionics using advanced sensor and computing technologies are at the heart of every modern Aerospace vehicle. Advanced software systems to improve cockpit safety and enable unmanned and deep-space missions. Object-oriented programming and software engineering concepts required to design and build complex flight software systems. Software validation, verification and real-time performance analysis to assess flight software system reliability and robustness. Human-machine interface design for piloted systems. Automatic onboard data acquisition and decision-making for unmanned air and space vehicles.

Three hours of lecture and two hours of laboratory per week. Prerequisite: ENAE202 and ENAE283. Junior standing. For ENAE majors only.

0101	Anthony Banes MW 12:00pm - 12:50pm F 9:00am - 10:50am	Seats (Total: 29) SYM 0200 EGR 0312	 Lab
0102	Anthony Banes MW 12:00pm - 12:50pm F 11:00am - 12:50pm	Seats (Total: 29) SYM 0200 EGR 0312	 Lab
0103	Anthony Banes MW 12:00pm - 12:50pm F 1:00pm - 2:50pm	Seats (Total: 29) SYM 0200 EGR 0312	 Lab
0201	Huan Xu MW 12:00pm - 12:50pm M 9:00am - 10:50am	Seats (Total: 26) CHE 2110 EGR 0312	 Lab

0202	Huan Xu MW 12:00pm - 12:50pm Tu 2:00pm - 3:50pm	Seats (Total: 26) CHE 2110 EGR 0312	 Lab
0203	Huan Xu MW 12:00pm - 12:50pm M 2:00pm - 3:50pm	Seats (Total: 26) CHE 2110 EGR 0312	 Lab

ENAE398H **Honors Research Project**

(Perm req)

Credits: 1-3 Grading Method: Regular

Planned sequence of steps in aerospace honors research in which student take three (3) consecutive semesters of this course in partial fulfillment of aerospace engineering honors program requirements. The first semester consists of a series of seminars and meetings with faculty mentors on honors research; two semesters consist of undergraduate honors research project and paper conducted under the direction of an aerospace engineering faculty member to be presented at a conference.

Contact department for information to register for this course.

ENAE403 **Aircraft Flight Dynamics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENAE414 and ENAE432. Restriction: Must be in Engineering: Aerospace program; or permission of ENGR-Aerospace Engineering department.

Study of motion of aircraft, equations of motion, aerodynamic force representation, longitudinal and lateral motions, response to controls and to atmospheric disturbances, handling qualities criteria and other figures of merit.

0101	Michael Otte TuTh 3:30pm - 4:45pm	Seats (Total: 75) ESJ 2212

ENAE423 **Vibration and Aeroelasticity**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENAE324. Restriction: Must be in Engineering: Aerospace program; or permission of ENGR-Aerospace Engineering department.

Dynamic response of single and multiple degrees of freedom systems, finite element modeling, wing divergence, aileron reversal, wing and panel flutter.

0101	Andrew Becnel	Seats (Total: 100)
	MWF 11:00am - 11:50am	CHE 2110

ENAE423H **Vibration and Aeroelasticity**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENAE324. Restriction: Must be in Engineering: Aerospace program; or permission of ENGR-Aerospace Engineering department.

Dynamic response of single and multiple degrees of freedom systems, finite element modeling, wing divergence, aileron reversal, wing and panel flutter.

0101	Norman Wereley	Seats (Total: 25)
	MW 10:30am - 11:45am	EGR 2154

ENAE441 **Space Navigation and Guidance**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENAE404 and ENAE432. Restriction: Must be in Engineering: Aerospace program; or permission of ENGR-Aerospace Engineering department.

Principles of navigation. Celestial, radio, and inertial navigation schemes. Navigational and guidance requirements for orbital, planetary, and atmospheric entry missions. Fundamentals of communications and information theory. Link budgets, antennas and telemetry systems.

0101	Liam Healy	Seats (Total: 62)
	TuTh 9:30am - 10:45am	EGR 1108

ENAE455 **Aircraft Propulsion and Power**

Credits: 3 Grading Method: Regular, Pass-Fail

Prerequisite: ENES232, ENAE414, and ENAE311. Restriction: Must be in Engineering: Aerospace program; or permission of ENGR-Aerospace Engineering department.

Thermodynamic cycle analysis, aerothermochemistry of fuels and propellants, operating principles of piston, turbojet, fanjet, and other variations of airbreathing aircraft power units.

0101	Kenneth Yu	Seats (Total: 78)
	TuTh 12:30pm - 1:45pm	PLS 1140

ENAE457 **Space Propulsion and Power**

Credits: 3 Grading Method: Regular, Pass-Fail

Prerequisite: PHYS271, ENES232, PHYS270, and ENAE311. Restriction: Must be in Engineering: Aerospace program; or permission of ENGR-Aerospace Engineering department. And senior standing.

Thermodynamic cycle analysis, aerothermochemistry of fuels and propellants, operating principles of rocket, ion, and other exoatmospheric power units.

0101	Jarred Young TuTh 2:00pm - 3:15pm	Seats (Total: 65) EGR 0108

ENAE481 **Principles of Aircraft Design**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENAE324, ENAE362, and ENAE432. Corequisite: ENAE414. Restriction: Must be in Engineering: Aerospace program; or permission of ENGR-Aerospace Engineering department.

Aircraft design principles blending both synthesis and analysis. The iterative nature of the design process. Applied aerodynamics. Elements of aircraft performance calculation and optimization. Design of aircraft including payload, crew and avionics provisions, propulsion selection and sizing, aerodynamic configuration optimization, mass properties, stability and control characteristics, and vehicle subsystems. Individual student projects in aircraft design.

This course is restricted to students in the AHS Helicopter Design Compe tition and requires permission of the department to enroll.

0101	Dominic Palumbo MWF 2:00pm - 2:50pm	Seats (Total: 55) PHY 1201
0201	Sung Lee TuTh 2:00pm - 3:15pm *This course is restricted to students on the Design, Build, Fly team and requires permission from the department to enroll.*	Seats (Total: 14) CSI 3118
0301	James Baeder MWF 2:00pm - 2:50pm *This course is restricted to students in the AHS Helicopter Design Competition and requires permission of the department to enroll.*	Seats (Total: 10) EGR 1110

ENAE483 **Principles of Space Systems Design**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENAE404, ENAE324, ENAE362, and ENAE432. Restriction: Must be in Engineering: Aerospace program; or permission of ENGR-Aerospace Engineering department.

Principles of space systems analysis and vehicle design. Launch vehicle performance analysis and optimization. Design of vehicle systems including avionics, power, propulsion, life support, human factors, structures, actuator and mechanisms, and thermal control. Design processes and design synthesis. Individual student projects in vehicle design.

0101	David Akin, Andrew Becnel	Seats (Total: 60)
	TuTh 11:00am - 12:15pm	ESJ 0215

ENAE499 **Elective Research**

(Perm req)

Credits: 3 Grading Method: Regular

Undergraduate research project and paper conducted under the direction of an aerospace engineering faculty member to be presented at a conference or competition.

Contact department for information to register for this course.

ENAE601 **Astrodynamics**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENAE404 and ENAE441.

Mathematics and applications of orbit theory, building upon the foundations developed in ENAE 404 and ENAE 441. Topics include two body orbits, solutions of Kepler's equation, the two-point boundary value problem, rendezvous techniques, and Encke's method.

0101	Christine Hartzell	Seats (Total: 25)
	MW 2:00pm - 3:15pm	EGR 3114

ENAE603 **Near-Earth Object Exploration**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENAE601. Restriction: Must be in one of the following programs (ENGR: MS/PhD-Aerospace Engineering (Master's); ENGR: MS/PhD-Aerospace Engineering (Doctoral)). Credit only granted for: ENAE788N or ENAE603. Formerly: ENAE788N.

An overview of the near-Earth objects (NEOs) of our solar system--the asteroids and comets whose orbits closely approach Earth's orbit--and what we know about them, what we're learning about them, and how to design spacecraft missions to interact with them.

0101	Brent Barbee TuTh 5:00pm - 6:15pm	Seats (Total: 15) EGR 3111

ENAE631 **Helicopter Aerodynamics I**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENAE414 and ENAE311. Or permission of ENGR-Aerospace Engineering department; and permission of instructor.

A history of rotary-wing aircraft, introduction to hovering theory, hovering and axial flight performance, factors affecting hovering and vertical flight performance, autorotation in vertical descent, concepts of blade motion and control, aerodynamics of forward flight, forward flight performance, operational envelope, and introduction to rotor acoustics.

Those sections that begin with a letter are taught via ITV and are not intended for College Park campus students.

0101	Bharath Govindarajan, James Baeder, Inderjit Chopra MW 9:30am - 10:45am	Seats (Total: 20) JMP 2217
SG01	Bharath Govindarajan, Inderjit Chopra, James Baeder MW 9:30am - 10:45am	Seats (Total: 5) Location: TBA
SM01	Bharath Govindarajan, Inderjit Chopra, James Baeder MW 9:30am - 10:45am	Seats (Total: 5) Location: TBA
TV01	Inderjit Chopra, James Baeder, Bharath Govindarajan MW 9:30am - 10:45am	Seats (Total: 5) Location: TBA

ENAE636 **Helicopter Dynamics II**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: ENAE788R or ENAE636. Formerly: ENAE788R.

Aerodynamics, dynamics and aeromechanics of helicopters and tilt rotor aircraft. Experimental testing and mathematical modeling required for the design and analysis of such aircraft.

0101	Anubhav Datta	Seats (Total: 15)
	MW 9:30am - 10:45am	EGR 1110

ENAE641 **Linear System Dynamics**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENAE432.

Linear systems; state space, multi-input, multi-output models; eigenstructure; controllability, observability, singular value analysis; multivariable Nyquist condition; observer design; introduction to Kalman filtering. Full state feedback techniques including pole placement and LQR/LQG techniques; introduction to loop shaping and robustness.

0101	Robert Sanner	Seats (Total: 25)
	TuTh 12:30pm - 1:45pm	EGR 2116

ENAE647 **Flexible Multi-body Dynamics**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENAE646. Restriction: Must be in one of the following programs (ENGR: MS/PhD-Aerospace Engineering (Doctoral); ENGR: MS/PhD-Aerospace Engineering (Master's)). Credit only granted for: ENAE788Q or ENAE647. Formerly: ENAE788Q.

Review of particle dynamics, rigid body kinematics, analytical dynamics, constraint equations in multibody dynamics, methods for enforcing kinematic constraint, formulation of flexible bodies in multibody dynamics, finite element modeling, and numerical integration methods.

Prerequisite: ENAE646

0101	Olivier Bauchau	Seats (Total: 20)
	MW 2:00pm - 3:15pm	AJC 2119

ENAE651 **Smart Structures**

Credits: 3 Grading Method: Regular, Audit

Topics related to the analysis, design, and implementation of smart structures and systems: modeling of beams and plates with induced strain actuation; shape memory alloys; electro-rheological fluids; magnetostrictor and electrostricter actuators and fiber optic sensors.

Those sections that begin with a letter are taught via ITV and are not intended for College Park campus students.

0101	Inderjit Chopra TuTh 9:30am - 10:45am	Seats (Total: 20) JMP 2216
SM01	Inderjit Chopra TuTh 9:30am - 10:45am	Seats (Total: 10) Location: TBA
TV01	Inderjit Chopra TuTh 9:30am - 10:45am	Seats (Total: 10) Location: TBA

ENAE653 **Nonlinear Finite Element Analysis of Continua**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENAE652; or students who have taken courses with comparable content may contact the department.

Finite element formulation of nonlinear and time dependent processes. Introduction to tensors, nonlinear elasticity, plasticity and creep. Application to nonlinear solids including aerospace structures, such as shells undergoing finite rotations.

Prerequisite: ENAE652; or students who have taken courses with comparable content may contact the department.

0101	Sung Lee MW 3:30pm - 4:45pm	Seats (Total: 15) EGR 1110

ENAE655 **Structural Dynamics**

Credits: 3 Grading Method: Regular, Audit

Advanced principles of dynamics necessary for structural analysis; solutions of eigenvalue problems for discrete and continuous elastic systems, solutions to forced response boundary value problems by direct, modal, and transform methods.

0101	Olivier Bauchau MW 11:00am - 12:15pm	Seats (Total: 25) JMP 2202

ENAE673 **Aerodynamics of Incompressible Fluids**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Undergraduate courses in differential equations, incompressible, and compressible flow (ENAE 311 and ENAE 414 or ENME 331 or ENME 640 or equivalent). Restriction: Must be in ENGR: MS/PhD-Aerospace Engineering (Master's) program.

Topics include: conservation equations, complex potential flow, the Navier-Stokes equations, boundary layers and similarity solutions, solutions to classical problems, and application to wing theory.

0101	Pino Martin TuTh 9:30am - 10:45am	Seats (Total: 20) EGR 1110

ENAE681 **Engineering Optimization**

Credits: 3 Grading Method: Regular, Audit

Methods for unconstrained and constrained minimization of functions of several variables. Sensitivity analysis for systems of algebraic equations, eigenvalue problems, and systems of ordinary differential equations. Methods for transformation of an optimization problem into a sequence of approximate problems. Optimum design sensitivity analysis.

0101	Roberto Celi TuTh 2:00pm - 3:15pm	Seats (Total: 30) MTH 1313

ENAE684 **Computational Fluid Dynamics I**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of ENGR-Aerospace Engineering department.

Partial differential equations applied to flow modelling, fundamental numerical techniques for the solution of these equations, elliptic, parabolic, and hyperbolic equations, elements of finite difference solutions, explicit and implicit techniques. Applications to fundamental flow problems.

0101	James Baeder TuTh 11:00am - 12:15pm	Seats (Total: 35) JMP 2216
SG01	James Baeder TuTh 11:00am - 12:15pm	Seats (Total: 5) Location: TBA

SM01	James Baeder TuTh 11:00am - 12:15pm	Seats (Total: 5) Location: TBA
TV01	James Baeder TuTh 11:00am - 12:15pm	Seats (Total: 5) Location: TBA

ENAE788D **Selected Topics in Aerospace Engineering; Advanced Space Systems Design**

Credits: 3 Grading Method: Regular, Audit

0101	David Akin TuTh 11:00am - 12:15pm	Seats (Total: 12) ESJ 0215

ENAE788K **Selected Topics in Aerospace Engineering; Estimation and Control of Stochastic Systems**

Credits: 3 Grading Method: Regular, Audit

0101	Robert Sanner MW 2:00pm - 3:15pm	Seats (Total: 15) JMP 2216
SG01	Robert Sanner MW 2:00pm - 3:15pm	Seats (Total: 5) Location: TBA
SM01	Robert Sanner MW 2:00pm - 3:15pm	Seats (Total: 5) Location: TBA
TV01	Robert Sanner MW 2:00pm - 3:15pm	Seats (Total: 5) Location: TBA

ENAE788X **Selected Topics in Aerospace Engineering; Planetary Surface Robotics**

Credits: 3 Grading Method: Regular, Audit

0101	David Akin MW 2:00pm - 3:15pm	Seats (Total: 25) JMP 2222
SG01	David Akin MW 2:00pm - 3:15pm	Seats (Total: 5) Location: TBA

SM01	David Akin MW 2:00pm - 3:15pm	Seats (Total: 5) Location: TBA
TV01	David Akin MW 2:00pm - 3:15pm	Seats (Total: 5) Location: TBA

ENAE799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

ENAE898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

ENAE899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

ENCE Engineering, Civil Fall 2018

ENCE100 **Introduction to Civil and Environmental Engineering**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

An overview of the department of Civil and Environment Engineering. Students are introduced to the undergraduate curriculum and will be exposed to other undergraduate and graduate students at various points in their program. The course blends panel presentations by seniors and graduate students, faculty and practitioners with a project and book review to be performed by the students.

0101	Kaye Brubaker F 1:00pm - 1:50pm	Seats (Total: 132) CHM 1402

ENCE200 **Civil Engineering Computation**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENES100, MATH141, and ENES102; and permission of ENGR-Civil & Environmental Engineering department. Credit only granted for: ENCE200 or ENCE202. Formerly: ENCE202.

Development of knowledge and skills in managing, analyzing, interpreting, and communicating spatial information. Computer Aided Drawing (CAD) and Geographic Information Systems (GIS) are introduced in the context of civil and environmental engineering applications.

0101	Michael Humber, Frank White MW 2:00pm - 3:15pm	Seats (Total: 38) EGR 1156
0201	Frank White MW 3:30pm - 4:45pm	Seats (Total: 38) EGR 1156

ENCE201 **Engineering Information Processing**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENES220 and MATH241; and permission of ENGR-Civil & Environmental Engineering department. Corequisite: MATH246. Credit only granted for: ENCE201 or ENCE203.

Exploration of algorithms for solving problems in several important areas of numerical computing: roots of equations; matrix algebra and the systems of linear equations; function approximation, numerical differentiation and integration; and ordinary differential equations. Issues of solution accuracy, robustness, and efficiency are also considered. Numerical techniques are presented in the context of engineering applications, and example problems are solved using a variety of computer-based tools (primarily MATLAB).

0101	Peter Chang MWF 2:00pm - 2:50pm	Seats (Total: 50) ESJ 2309

ENCE215 **Engineering for Sustainability**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHEM135; and permission of ENGR-Civil & Environmental Engineering department.

Engineers have a key role to play in planning, designing, building, and ensuring a sustainable future. In this class, a problem-based approach is used to examine fundamentally-based analyses and approaches for engineering as sustainable society, with a focus on sustainable use of energy and materials, sustainable infrastructure solutions, atmospheric sustainability and sustainable water supply, and human population growth and resource consumption and its implications for sustainability.

0101	Natasha Almeida e Andrade TuTh 9:30am - 10:45am	Seats (Total: 24) CHE 2118

0201	Natasha Almeida e Andrade TuTh 2:00pm - 3:15pm	Seats (Total: 24) PLS 1146	
0301	Natasha Almeida e Andrade TuTh 8:00am - 9:15am	Seats (Total: 24) EGR 3102	

ENCE300 **Fundamentals of Engineering Materials**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENES220; and permission of ENGR-Civil & Environmental Engineering department.

Behavior, physical, mechanical and chemical properties, design and performance of civil engineering materials, including aggregates, cement, concrete, asphalt binders and mixtures, plastics and geosynthetics, timber, metals and alloys. Modified and advanced highway materials (polymer and rubber modified mixtures, high performance concrete, composites, smart materials). Laboratory testing with hands-on experience on aggregates, Portland cement concrete, asphalt mixtures, timber and metals as per SUPERAVE, ACI design methods, and ASTM standards and specifications.

Restricted to students in the College of Engineering.

0101	Dimitrios Goulias Tu 12:30pm - 2:30pm Th 10:30am - 12:30pm	Seats (Total: 18) ESJ 1202 EGL 0147	 Lab
0102	Dimitrios Goulias Tu 12:30pm - 2:30pm Th 12:30pm - 2:30pm	Seats (Total: 18) ESJ 1202 EGL 0147	 Lab
0103	Dimitrios Goulias Tu 12:30pm - 2:30pm Th 2:30pm - 4:30pm	Seats (Total: 18) ESJ 1202 EGL 0147	 Lab
0104	Dimitrios Goulias Tu 12:30pm - 2:30pm Th 4:30pm - 6:30pm	Seats (Total: 18) ESJ 1202 EGL 0147	 Lab

ENCE302 **Probability and Statistics for Civil and Environmental Engineers**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MATH246 and ENCE201; and permission of ENGR-Civil & Environmental Engineering department.

Statistics is the science of data. Civil Engineers must often make decisions based on incomplete, variable or uncertain information. In addition, modern methods of design and analysis need to account for variability in natural, engineered and human systems. After successful completion of this class, a student should have facility and familiarity with established basic techniques for managing data, modeling variability and uncertainty, communicating about data and decisions, and supporting or defending a decision or judgment based on uncertain or incomplete data.

Restricted to students in the College of Engineering.

0101	Bilal Ayyub MWF 2:00pm - 2:50pm	Seats (Total: 65) CHM 1402

ENCE305 **Fundamentals of Engineering Fluids**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENES220, PHYS260, and PHYS261; and permission of ENGR-Civil & Environmental Engineering department. Credit only granted for: ENCE305 or ENCE330. Formerly: ENCE330.

The theoretical bases for fluid statics and dynamics, including the conservation of mass, energy and momentum. Modeling of hydraulic systems are introduced. Emphasis on pipe flow and open-channel hydraulics, with real-world applications.

0101	Kaye Brubaker MWF 8:00am - 8:50am	Seats (Total: 30) EGR 1104
0102	Richard McCuen MWF 10:00am - 10:50am	Seats (Total: 40) EGR 1104

ENCE310 **Introduction to Environmental Engineering**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS260 and ENCE215; and permission of ENGR-Civil & Environmental Engineering department.

Introduction to the physical, chemical and biological systems relating to the quality of water, land and air environments. Fundamental principles will be emphasized, current environmental pollution problems will be examined and methods of pollution abatement discussed.

0101	Travis Ostrom	Seats (Total: 66)
	TuTh 8:00am - 9:15am	EGR 0108

ENCE320 **Introduction to Project Management**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of ENGR-Civil & Environmental Engineering department. Restriction: Must be in a major in ENGR-A. James Clark School of Engineering or in the Project Management Minor. Credit only granted for: ENCE320 or ENCE325.

Learn the fundamentals of project management and the analytical skills for the management side of engineering projects.Topics include economic analysis, project screening and selection, organizational and project structure, scheduling, budgeting, resource management, life cycle costing, and project control.

Restricted to students in the College of Engineering.

0101	Gregory Baecher	Seats (Total: 150)
	Th 5:00pm - 7:30pm	ESJ 1224

ENCE325 **Introduction to Construction Project Management**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in ENGR-A. James Clark School of Engineering; or must be in a major in ARCH-School of Architecture, Planning, & Preservation; or must be in the Construction Project Management minor. And permission of ENGR-Civil & Environmental Engineering department. Credit only granted for: ENCE 320 or ENCE 325.

Learn the basic topics in sourcing, planning, financing, designing, contracting, constructing and operating buildings and other facilities in the built infrastructure. Topics include construction economics, design constructability reviews, construction process planning, contracts and procurement strategies, project scheduling and resource utilization, site layout planning, project cost and quality controls, temporary structures, environmental sustainability, project handover procedures, facility operation and management, IT-based tools for construction project and resource management.

0101	Stephen Wooldridge	Seats (Total: 50)
	Th 5:00pm - 7:30pm	EGR 0108

ENCE340 **Fundamentals of Geotechnical Engineering**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENES220; and permission of ENGR-Civil & Environmental Engineering department.

Introductory study of soils in civil engineering. Soil origin, phase relationships and classification schemes. Soil hydraulics: capillary, effective stress, permeability and seepage considerations. Basic stress distribution theories and soil consolidation-settlement analysis. Integration of shear strength evaluation with slope stability analysis. If time permits, topics such as applications in geoenvironmental engineering will be covered.

0101	Ahmet Aydilek	Seats (Total: 57)
	TuTh 9:30am - 10:45am	CHE 2108

ENCE353 **Introduction to Structural Analysis**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of ENGR-Civil & Environmental Engineering department; and (MATH246 and ENES220).

The basic tools of structural analysis and design. Design loads. Equilibrium of external and internal forces. Shear and moment diagrams in beams and frames. Truss analysis. Influence line diagrams. The slope-deflection method and method of consistent deformation. Matrix stiffness methods for beams, frames and trusses.

Restricted to students in the College of Engineering.

0101	Mark Austin	Seats (Total: 60)
	MWF 9:00am - 9:50am	EGR 0108

ENCE360 **Analysis of Civil Engineering Systems**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENCE201 and MATH140; and permission of ENGR-Civil & Environmental Engineering department.

Introduction to systems approach and systems analysis in civil and environmental engineering. Introduction to systems analysis tools that facilitate engineering management decision making including optimization and computer simulation. Introduction to linear and nonlinear mathematical optimization including linear and integer programming, elementary nonlinear programming and dynamic programming.

0101	Ali Haghani	Seats (Total: 36)
	TuTh 9:30am - 10:45am	EGR 1156

0102	Ali Haghani TuTh 11:00am - 12:15pm	Seats (Total: 36) EGR 1156	

ENCE370 **Introduction to Transportation Engineering and Planning**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENCE201, PHYS260, and PHYS261; and permission of ENGR-Civil & Environmental Engineering department.

Engineering problems of transportation by highways, airways, pipelines, waterways, and railways. Transportation modes and technologies, vehicle dynamics, basic facility design, traffic stream models, capacity analysis, transportation planning, evaluation and choice, and network analysis.

Restricted to students in the College of Engineering.

0101	Cinzia Cirillo MWF 1:00pm - 1:50pm	Seats (Total: 60) PHY 1201	

ENCE411 **Environmental Engineering Science**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENCE310; and permission of ENGR-Civil & Environmental Engineering department.

Introduces the analytical techniques available to assess performance of engineering processes as they relate to water, soil, and air treatment and quality. The basic principles of environmental management, economics of waste treatment, by-product reutilization, and energy cycles are introduced and discussed. Alternative technologies are introduced and evaluated mostly by assessing their potential to reduce waste, minimize energy use, and promote sustainability. Students' activities include, a weekly lab to provide hands-on experience with environmental quality measurements and treatment techniques; on-site visits to regional industries that undertake sustainable practices; and a final research project where experimental design and laboratory techniques are used to assess interactions between technologies and natural systems and their potential for reducing environmental impacts.

0101	Alba Torrents TuTh 11:00am - 11:50am W 10:00am - 1:00pm	Seats (Total: 12) EGR 0135 Location: TBA	 Lab
0102	Alba Torrents TuTh 11:00am - 11:50am W 2:00pm - 5:00pm	Seats (Total: 12) EGR 0135 Location: TBA	 Lab

ENCE420 **Selection and Utilization of Construction Equipment**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Prerequisite: Permission of ENGR-Civil & Environmental Engineering department. Restriction: Must be in a major in ENGR-A. James Clark School of Engineering; or must be in the Construction Project Management minor.

Learn to evaluate and select construction equipment with a focus on mechanized equipment for earthwork and building construction.Learn about the parties involved in procurement, operation and maintenance, and how to cost-effectively plan, select, and utilize equipment for earthmoving, paving, formwork, trenching, rock excavation, tunneling, site preparation, and steel and concrete construction. Explore trends in equipment design, construction automation, and robotics.

0101	Miroslaw Skibniewski M 3:30pm - 6:00pm	Seats (Total: 25) EGR 2154

ENCE422 **Project Cost Accounting and Economics**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Prerequisite: Permission of ENGR-Civil & Environmental Engineering department. Restriction: Must be in a major in ENGR-A. James Clark School of Engineering; or must be in the Construction Project Management Minor; or must be in the Project Management Minor.

Learn: the fundamentals of accounting; project cost accounting principles as they apply to project management; project cost accounting; and the fundamentals of engineering economics.Topics include: project feasibility analysis; reading and analyzing financial statements; cash management; cash flow analysis; depreciation and taxes; and impact on profitability; the principles of activity based costing; net present value analysis; the framework for project performance measurement, cost performance indices, and earned value analysis.

0101	Qingbin Cui M 5:00pm - 7:30pm	Seats (Total: 60) KEB 1110

ENCE423 **Project Planning, Estimating & Scheduling**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Restriction: Must be in a major in ENGR-A. James Clark School of Engineering; or must be in the Construction Project Management Minor; or must be in the Project Management Minor. And permission of ENGR-Civil & Environmental Engineering department.

Learn the fundamentals of project planning, estimating, and scheduling. Understand the concepts of planning; to reduce uncertainty, improve efficiency of the operation, to set and meet objectives, and to provide a basis for monitoring and controlling the work. Be introduced to: the concepts of resource definition, assignment and management, and; the basics of project estimating (pricing) methods including global pricing strategies, types of estimates, pricing processes, overhead and profit, and project financing.Learn the basics of project scheduling including; bar charts, network-based methodologies, and linear scheduling techniques. Emphasis is placed on Critical Path Method (CPM) scheduling, a network based methodology. Be exposed to the use of scheduling software and will actually develop a CPM schedule for an actual construction project as part of a semester project.

Restricted to students in the College of Engineering.

0101	Kenneth O'Connell Tu 5:00pm - 7:30pm	Seats (Total: 75) PLS 1140

ENCE424 **Communication for Project Managers**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Permission of ENGR-Civil & Environmental Engineering department. Restriction: Must be in a major in ENGR-A. James Clark School of Engineering; or must be in the Construction Project Management Minor; or must be in the Project Management Minor.

Learn the fundamentals of communications for project managers. Emphasis is on interpersonal and group communications; through voice, electronic, and written messages; project cycle and reports and presentations during this cycle; and communications for employment.

0101	Shana Webster-Trotman Tu 5:00pm - 7:30pm	Seats (Total: 75) ESJ 0215

ENCE426 **Construction Documentation and BIM Applications in Engineering and Construction**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Permission of ENGR-Civil & Environmental Engineering department. Restriction: Must be in a major in ENGR-A. James Clark School of Engineering; or must be in the Construction Project Management Minor; or must be in the Project Management Minor.

Learn the basics of construction documentation methods, with particular emphasis on Building Information Modeling (BIM). Topics include: the fundamentals of assembly, coordination, and maintenance of construction documents and implementation of BIM techniques in the design and construction processes, and; a review of Autodesk, Revit, and Navisworks and other leading BIM software. Lectures from project management faculty supplemented by guest lecturers from the construction industry.

0101	Jason Dreher	Seats (Total: 40)
	W 5:00pm - 7:30pm	EGR 0108

ENCE432 **Ground Water Hydrology**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENCE305; and permission of ENGR-Civil & Environmental Engineering department.

Concepts related to the development of the ground water resources, hydrology, hydrodynamics of flow through porous media, hydraulics of wells and basin-wide ground water development. Fundamentals of ground water pollution are introduced.

Restricted to students in the College of Engineering.

0101	Kaye Brubaker	Seats (Total: 42)
	MWF 9:00am - 9:50am	EGR 1104

ENCE441 **Foundation Design**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENCE340; and permission of ENGR-Civil & Environmental Engineering department.

Critical review of classical lateral earth pressure theories, analysis of retaining walls and reinforced earth walls, subsurface explorations, bearing capacity and settlement of shallow foundations, design of deep foundations that includes both pile foundations and drilled shafts.

Restricted to students in the College of Engineering.

0101	Mohamed Aggour	Seats (Total: 90)
	TuTh 11:00am - 12:15pm	KEB 1110

ENCE444 **Experimental Methods in Geotechnical Structural Engineering**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENCE353 and ENCE340; and permission of ENGR-Civil & Environmental Engineering department.

In the geotechnical engineering part of the course, major soils testing and their interpretation including classification, compaction, strength, and compressibility will be undertaken. The structural engineering part of this course covers test planning, loading apparatus, instrumentation, data acquisition and data analysis, as well as basic aspects of structural testing techniques and shake-table test.

0101	Yunfeng Zhang, Ahmet Aydilek Tu 12:30pm - 1:30pm W 1:00pm - 4:00pm	Seats (Total: 20) PLS 1158 EGL 0110E	 Lab
0201	Ahmet Aydilek, Yunfeng Zhang Tu 12:30pm - 1:30pm W 1:00pm - 4:00pm	Seats (Total: 15) EGR 3111 PLS 1111	 Lab

ENCE454 **Design of Concrete Structures**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENCE353; and permission of ENGR-Civil & Environmental Engineering department. Formerly: ENCE451.

Combined bending and compression, development and anchorage of reinforcement, deflections, design of slabs including one-way and two-way, design of footings, retaining walls, introduction to prestressed concrete, design of multi-story buildings.

0101	Amde Amde MWF 11:00am - 11:50am	Seats (Total: 49) CHE 2118
0201	Amde Amde MWF 10:00am - 10:50am	Seats (Total: 35) JMP 1202

ENCE466 **Design of Civil Engineering Systems**

(Perm req)

Credits: 3 Grading Method: Regular, Audit CORE: CS

Prerequisite: Permission of ENGR-Civil & Environmental Engineering department. Restriction: Senior standing. Additional information: Must be taken in the semester in which the student graduates.

A major civil engineering design experience that emphasizes development of student creativity, development and use of design methodologies, evaluation of alternate solutions, feasibility considerations, and detailed system descriptions. Realistic design constraints including economic factors, safety, aesthetics, and reliability will be imposed. Students will work in design project groups and be required to exercise oral and written communication skills.

Restricted to students in the College of Engineering.

0101	Russell Anderson Tu 3:30pm - 4:45pm Th 3:30pm - 4:45pm	Seats (Total: 40) JMP 3201 EGR 1156	 Lab

0102	Russell Anderson	Seats (Total: 40)	
	Tu 3:30pm - 4:45pm Th 2:00pm - 3:15pm	JMP 3201 EGR 1156	Lab

ENCE470 **Highway Engineering**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENCE302 and ENCE370; and permission of ENGR-Civil & Environmental Engineering department.

Highway location and design, highway engineering economics, traffic engineering, traffic measurement devices and technologies. Includes discussion of technological advances in traffic flow and capacity, such as signal systems, corridor control, automatic driver information, incident detection and autonomous vehicle operation.

Restricted to students in the College of Engineering.

0101	ShiaauLir Wang	Seats (Total: 40)
	MWF 10:00am - 10:50am	CHM 0119

ENCE489 **Special Problems in Civil Engineering**

Credits: 1-4 Grading Method: Regular, Pass-Fail, Audit

A course arranged to meet the needs of exceptionally well prepared students for study in a particular field of civil engineering.

Contact department for information to register for this course.

ENCE489B **Special Problems in Civil Engineering; Land-Atmosphere Interactions in Hydrology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

A course arranged to meet the needs of exceptionally well prepared students for study in a particular field of civil engineering.

We discuss the role of hydrology in the climate system, precipitation and evaporation processes, atmospheric radiation, the exchange of mass, heat, and momentum between the soil and vegetative surface and the overlying atmosphere, and the flux and transport of water within the turbulent boundary layer. In addition, the role of satellite-based remote sensing observations in land-atmosphere analysis as well as sustainable hydrologic applications will be discussed.

0101	Barton Forman TuTh 4:00pm - 5:15pm	Seats (Total: 20) EGR 0135

ENCE489Q **Special Problems in Civil Engineering; Assessment of Natural Hazards for Engineering Applications**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

A course arranged to meet the needs of exceptionally well prepared students for study in a particular field of civil engineering.

Prerequisite: ENCE302 or eqivalent. Also offered as ENCE688Q. Credit only granted for ENCE489Q or ENCE688Q. Ensuring the resilience of infrastructure and other engineered systems requires an assessment of the natural hazards to which the systems are exposed. Probabilistic natural hazard assessment evaluates how likely a location is to experience hazard events (e.g., hurricanes or earthquakes) and how likely those events are to cause various impacts (e.g., large surges, intense rainfall, high winds, or ground shaking). This course will review the basic science of natural hazards and provide the foundational concepts of probability and statistics required for developing models to assess the frequency and severity of natural hazards. This course will present methodologies for assessment of multiple types of natural hazards (e.g., seismic, precipitation, riverine, coastal, and wind hazards).

0101	Michelle Bensi F 8:00am - 10:40am	Seats (Total: 25) CHM 1228

ENCE489U **Special Problems in Civil Engineering; Introduction to Infrastructure and Resilience**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

A course arranged to meet the needs of exceptionally well prepared students for study in a particular field of civil engineering.

Prerequisite: ENCE302 or equivalent. Co-requisite: ENCE360; or by permission of instructor. Also offered as ENCE688U. Credit only granted for ENCE489U or ENCE688U. The objective of this course is to develop system-level skills for the planning, design, maintenance, and operation of resilient infrastructure systems. Through this course, we will discuss a variety of infrastructure systems, both public and private, and their role in communities before and after disasters. The themes of the course will be grounded in the four phases of emergency management (mitigation, preparedness, response, and recovery) and the role that infrastructure plays in each. Through these applications areas, we will study a variety of conceptual, analytical, and computational models that support informed decision-making for these systems under uncertainty.

0101	Allison Reilly W 8:00am - 10:40am	Seats (Total: 25) EGR 3106

ENCE602 **Project Procurement Management**

Credits: 3 Grading Method: Regular, Audit

Fundamental concepts and techniques for project acquisition and procurement are presented. Students are introduced to the PMBOK Guide six-step procurement process and expected to develop an in-depth understanding of project evaluation, planning, financing, contracting, negotiation, and procurement execution. It will also cover emerging methods, principles, and practices in infrastructure project procurement, including Public-Private Partnerships, Carbon project procurement, and Clean Development Mechanism.

PM01	Qingbin Cui	Seats (Total: 25)
	Class time/details on ELMs	ONLINE
	Weekly video conference: Monday 730pm-830pm.	

ENCE610 **Fundamentals of Structural Analysis**

Credits: 3 Grading Method: Regular, Audit

Cartesian tensor notation. Linear forms of the general equilibrium, compatability, and constitutive equations. The calculus of variations. The principles of virtual work and complementary virtual work. Self-adjoint problem formulations.

0101	Peter Chang	Seats (Total: 25)
	TuTh 3:30pm - 4:45pm	EGR 2116

ENCE611 **Finite Element Methods**

Credits: 3 Grading Method: Regular, Audit

Formerly: ENCE661.

Basic principles and fundamental concepts of the finite element method. Consideration of geometric and material nonlinearities, convergence, mesh gradation and computational procedures in analysis. Applications to plane stress and plane strain, plates and shells, eigenvalue problems, axisymmetric stress analysis, and other problems in civil engineering.

0101	Brian Phillips	Seats (Total: 25)
	MW 3:30pm - 4:45pm	EGR 3114

ENCE613 **Structural Dynamics**

Credits: 3 Grading Method: Regular, Audit

Formerly: ENCE653.

Analysis of the dynamic response of structrues and structural component subjected to impact load, transient load, and ground excitations; study of single degree-of-freedom and multi degree-of-freedom systems in classical closed form solution and approximate numerical solution; solution in the frequency domain and the use of finite element method.

0101	Yunfeng Zhang	Seats (Total: 25)
	W 5:00pm - 7:30pm	EGR 3114

ENCE620 Risk Analysis for Engineering

Credits: 3 Grading Method: Regular, Audit

Sources of hazards, definition of risk, system analysis, functional modeling and analysis techniques, probabilistic risk assessment procedure, risk methods, risk acceptance, assessment of failure likelihood, consequence assessment, risk benefit assessment, uncertainty surces and types, modeling uncertainty, risk analysis and decision making under uncertainty, collection of data, expert-opinion elicitation, human-machine interface and human factors engineering.

0101	Bilal Ayyub	Seats (Total: 20)
	MW 11:00am - 12:15pm	EGR 3102

ENCE622 Construction Automation & Robotics

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in Engineering: Civil program; or permission of ENGR-Civil & Environmental Engineering department.

Covers advanced technologies leading to redesign and partial or full automation of selected construction processes utilizing industrial robotics. Lectures and presentations will cover topics such as basic robotic technology (robot kinematics and dynamics, industrial manipulators, mobility bases, end effectors, sensors, control systems, and robot task programming), design of automated construction processes, selection of means and methods for automated construction processes, robot ergonomics and safety, calculation of costs and benefits of construction robots in selected applications, engineering and economic feasibility of automation and robotics in the construction industry.

PM01	Miroslaw Skibniewski	Seats (Total: 25)
	Class time/details on ELMs	ONLINE
	Weekly video conference: Thursday 8PM-9PM.	

ENCE627 Project Risk Management

Credits: 3 Grading Method: Regular

Restriction: Must not have completed ENCE627.

Introduction to identifying, analyzing, assessing, and managing risks inherent to engineering projects. Includes: probability modeling, choice and value theory, schedule and cost risk, risk mitigation and transfer, and contract considerations of project risk. Examples are drawn from construction, software development, systems integration, and other large engineering projects; and cover probability basics, subjective probability, statistical data analysis, introduction to decision theory, Monte Carlo simulation, value of information, and risk-based decision making.

Introduction to identifying, analyzing, assessing, and managing risks inherent to engineering and disaster mitigation projects. Includes: probability modeling, choice and value theory, schedule and cost risk, risk mitigation and transfer, and contract considerations of risk. Examples are drawn from construction, software development, systems integration, natural hazards management, and other large engineering activities. The course focuses on the conceptual underpinnings of risk and uncertainty, covering probability basics, subjective probability, basics, subjective probability, statistical data analysis, introduction to decision theory, Monte Carlo simulation, value of information, and risk-based decision making.

PM01	Gregory Baecher	Seats (Total: 40)
	Class time/details on ELMs	ONLINE
	Weekly video conference: Thursday 7AM-8AM or Wednesday 8PM-9PM.	

ENCE630 Environmental and Water Resource Systems I

Credits: 3 Grading Method: Regular, Audit

Application of statistical and systems engineering techniques in the analysis of information necessary for the design or characterization of environmental or hydrologic processes; emphasis on the fundamental considerations that control the design of information collection programs, data interpretation, and the evolution of simulation models used to support the decision-making process.

0101	Richard McCuen	Seats (Total: 18)
	TuTh 9:30am - 10:45am	EGR 3111

ENCE640 Advanced Soil Mechanics

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENCE340; or students who have taken courses with comparable content may contact the department.

Introduction to the use of elastic theory in stress and displacement solutions to geotechnical engineering (soil and rock mechanics). The effect of soil moisture (at rest) relative to effective stress principles, capillary and frost. Exact and numeric techniques for the analysis for soil seepage under isotropic and anisotropic conditions. Classical settlement (consolidation) and compressiblility theories, including finite difference solution for vertical and radial drainage.

0101	Behzad Amir Faryar	Seats (Total: 20)
	M 5:30pm - 8:00pm	EGR 1110

ENCE650 **Process Dynamics in Environmental Systems**

Credits: 3 Grading Method: Regular, Audit

Formerly: ENCE636.

The fundamentals of heterogeneous equilibria, rates of environmental reactions, and flow and material transport or presented. Applications of these principles will be presented to small and large scale environmental problems involving liquid, gas, and solid phases. Both natural and engineered environmental systems will be examined.

0101	Allen Davis	Seats (Total: 20)
	TuTh 9:30am - 10:45am	EGR 2116

ENCE651 **Chemistry of Natural Waters**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: ENCE633 or ENCE651. Formerly: ENCE633.

Application of principles from chemical thermodynamics and kinetics to the study and interpretation of the chemical composition of natural waters is rationalized by considering metal ion solubility controls, pH, carbonate equilibria, adsorption reactions, redox reactions and the kinetics of oxygenation reactions which occur in natural water environments.

Also offered as MEES698@.

0101	Alba Torrents	Seats (Total: 20)
	TuTh 8:00am - 9:15am	EGR 1110

ENCE652 **Microbiological Principles of Environmental Engineering**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: ENCE637 or ENCE652. Formerly: ENCE637.

An examination of microbiological principles directly affecting humans and the surrounding environment. Special emphasis is given to the understanding of microbial physiology and in environmental engineering related to water and land systems including aerobic and anaerobic treatment processes involved in nutrient/waste recycling as well as impact of xenobiotic compounds on processes water, soil and sediment.

0101	Devrim Kaya TuTh 11:00am - 12:15pm	Seats (Total: 15) EGR 3111

ENCE661 Project Cost Accounting and Finance

Credits: 3 Grading Method: Regular, Audit

This course reviews the fundamentals of accounting; examines project cost accounting principles, applications, and impact on profitability; examines the principles of activity based costing; covers the elements involved in cash management; introduces the framework for how projects are financed and the potential impact financing has on the projects; and a framework for evaluating PC based systems and what resources are needed for an effective project cost system.

0101	James Myers M 4:00pm - 6:40pm	Seats (Total: 40) JMP 2216
SM01	James Myers M 4:00pm - 6:40pm	Seats (Total: 5) Location: TBA

ENCE662 Introduction to Project Management

Credits: 3 Grading Method: Regular, Audit

Introduction to project management including: overview and concepts of project management (principles, body of knowledge, strategies); planning successful projects (defining, specifying, delivery options, scheduling, budgeting); implementing (organizing the team, work assignments, team building, effective leadership); executing (performance measurement, maintaining the schedule, adjustments/mid-course corrections, record keeping, status reporting, communications, managing conflict, time management); and closeout(performance measurement, maintaining the schedule, adjustments/mid-course corrections, record keeping, status reporting, communications, managing conflict, time management).

0101	John Cable, John Johnson W 4:00pm - 6:40pm	Seats (Total: 37) JMP 2222

PM01	John Cable, John Johnson Class time/details on ELMs *Weekly video conference: Monday 7:00am to 8:00am or 8:00pm to 9:00pm.*	Seats (Total: 30) ONLINE
SM01	John Cable, John Johnson W 4:00pm - 6:40pm	Seats (Total: 5) Location: TBA

ENCE664 **Legal Aspects of Engineering Design and Construction**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of ENGR-Civil & Environmental Engineering department.

Examines ways in which the legal system affects the design and construction process. Focuses on contract types and the relationships between the parties in different delivery systems. Covers basics of procurement protocols along with negotiating techniques and strategies. Topics include contract law, the relationships between the parties, tort and negligence law, and the statutory principles affecting construction.

Weekly video conference after 7:50 p.m.

PM01	Thomas Barham, Thomas Powell, Mark Groff Class time/details on ELMs *Weekly video conference: Tuesday 7AM-8AM or Tuesday 8PM-9PM.*	Seats (Total: 35) ONLINE

ENCE665 **Management of Project Teams**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Experience has shown that really excellent project managers are not only technically competent but that they have above average skills in human relations and communications. The course will prepare project managers to optimize the utilization of their most important resource: people. Relying primarily on a wide range of research and experience in the Project Team, this course will help guide project managers in building the other skills needed to be truly successful in the competitive Project Team.

0101	Jocelyn Davis Th 4:00pm - 6:40pm	Seats (Total: 40) JMP 2121
SM01	Jocelyn Davis Th 4:00pm - 6:40pm	Seats (Total: 5) Location: TBA

ENCE666 **Cost Engineering and Control**

Credits: 3 Grading Method: Regular, Audit

Analytic techniques to estimate and control project costs, including site investigation, quantity takeoff, work analysis and bid preparation. Systematic cost control as related to job production and historical data.

0101	Neil Schulman **Meets August 27, 2018 - December 3, 2018** Tu 1:00pm - 3:40pm	Seats (Total: 25) JMP 2217
PM01	Neil Schulman **Meets August 27, 2018 - December 3, 2018** Class time/details on ELMs *Weekly video conferences: Wednesday 7:00-7:50.*	Seats (Total: 30) ONLINE
SM01	Neil Schulman **Meets August 27, 2018 - December 3, 2018** Tu 1:00pm - 3:40pm	Seats (Total: 5) Location: TBA

ENCE670 **Highway Traffic Characteristics and Measurements**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENCE470; or permission of instructor.

The study of the fundamental traits and behavior patterns of road users and their vehicles in traffic. The basic characteristics of the pedestrian, the driver, the vehicle, traffic volume and speed, stream flow and intersection operation, parking, and accidents.

0101	Gang-Len Chang Th 12:30pm - 3:10pm	Seats (Total: 29) EGR 2154

ENCE672 **Regional Transportation Planning**

Credits: 3 Grading Method: Regular, Audit

Factors involved and the components of the process for planning statewide and regional transportation systems, encompassing all modes. Transportation planning studies, statewide traffic models, investment models, programming and scheduling.

0101	Paul Schonfeld	Seats (Total: 29)
	Tu 5:00pm - 7:30pm	JMP 1109

ENCE675 Airport Planning and Design

Credits: 3 Grading Method: Regular, Audit

The planning and design of airports including site selection, runway configuration, geometric and structural design of the landing area, and terminal facilities. Methods of financing airports, estimates of aeronautical demand, air traffic control, and airport lighting are also studied.

0101	Paul Schonfeld	Seats (Total: 15)
	M 5:00pm - 7:45pm	EGR 3114

ENCE677 OR Models for Transportation Systems Analysis

Credits: 3 Grading Method: Regular, Audit

Fundamental skills and concepts of the quantitative techniques of operations research including: mathematical modeling, linear programming, integer programming, network optimization (shortest paths, minimum spanning trees, minimum cost network flows, maximum flows), heuristics, and basics of probabilistic modeling. Emphasis on the application of these techniques to problems arising in transportation.

0101	Zhongxiang Wang	Seats (Total: 25)
	TuTh 3:30pm - 4:45pm	JMP 1202

ENCE688D Advanced Topics in Civil Engineering; Sensor Systems

Credits: 3 Grading Method: Regular, Audit

Advanced topics selected by the faculty from the current literature of civil engineering to suit the needs and background of students. May be taken for repeated credit when identified by topic title.

Also offered as ENSE698E. Credit only granted for ENCE688D or ENSE698E.

0101	Pamela Abshire, David Lovell	Seats (Total: 20)
	TuTh 12:30pm - 1:45pm	EGR 3102

ENCE688L **Advanced Topics in Civil Engineering; Advances in Transportation Demand Modeling**

Credits: 3 Grading Method: Regular, Audit

Advanced topics selected by the faculty from the current literature of civil engineering to suit the needs and background of students. May be taken for repeated credit when identified by topic title.

0101	Cinzia Cirillo	Seats (Total: 20)
	W 2:30pm - 5:00pm	CHE 2116

ENCE688Q **Advanced Topics in Civil Engineering; Assessment of Natural Hazards for Engineering Applications**

Credits: 3 Grading Method: Regular, Audit

Advanced topics selected by the faculty from the current literature of civil engineering to suit the needs and background of students. May be taken for repeated credit when identified by topic title.

Prerequisite: ENCE302 or eqivalent. Also offered as ENCE489Q. Credit only granted for ENCE489Q or ENCE688Q. Ensuring the resilience of infrastructure and other engineered systems requires an assessment of the natural hazards to which the systems are exposed. Probabilistic natural hazard assessment evaluates how likely a location is to experience hazard events (e.g., hurricanes or earthquakes) and how likely those events are to cause various impacts (e.g., large surges, intense rainfall, high winds, or ground shaking). This course will review the basic science of natural hazards and provide the foundational concepts of probability and statistics required for developing models to assess the frequency and severity of natural hazards. This course will present methodologies for assessment of multiple types of natural hazards (e.g., seismic, precipitation, riverine, coastal, and wind hazards).

0101	Michelle Bensi	Seats (Total: 25)
	F 8:00am - 10:40am	CHM 1228

ENCE688T **Advanced Topics in Civil Engineering; Disaster Resilience Seminar**

Credits: 1 Grading Method: Regular, Audit

Advanced topics selected by the faculty from the current literature of civil engineering to suit the needs and background of students. May be taken for repeated credit when identified by topic title.

This seminar with address varied topics in identifying, analyzing, assessing, and managing engineered systems resilient to natural, anthropogenic, and other hazards. This seminar series comprises guest lectures and internal faculty and student presentations on topics related to disaster resilience. Examples are drawn from foundational concepts; hazard science; planning, engineering, and design; risk and resilience assessment; and implementation.

0101	Gregory Baecher	Seats (Total: 25)
	F 11:00am - 12:00pm	PHY 1402

ENCE688U **Advanced Topics in Civil Engineering; Introduction to Infrastructure and Resilience**

Credits: 3 Grading Method: Regular, Audit

Advanced topics selected by the faculty from the current literature of civil engineering to suit the needs and background of students. May be taken for repeated credit when identified by topic title.

Prerequisite: ENCE302 or equivalent. Co-requisite: ENCE360, or by permission of instructor. Also offered as ENCE489U. Credit only granted for ENCE489U or ENCE688U. The objective of this course is to develop system-level skills for the planning, design, maintenance, and operation of resilient infrastructure systems. Through this course, we will discuss a variety of infrastructure systems, both public and private, and their role in communities before and after disasters. The themes of the course will be grounded in the four phases of emergency management (mitigation, preparedness, response, and recovery) and the role that infrastructure plays in each. Through these applications areas, we will study a variety of conceptual, analytical, and computational models that support informed decision-making for these systems under uncertainty.

0101	Allison Reilly	Seats (Total: 25)
	W 8:00am - 10:40am	EGR 3106

ENCE688V **Advanced Topics in Civil Engineering; Analytical Procedures of Structural Fire Protection**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Advanced topics selected by the faculty from the current literature of civil engineering to suit the needs and background of students. May be taken for repeated credit when identified by topic title.

0101	Jose Torero	Seats (Total: 14)
	TuTh 9:30am - 10:45am	ESJ 1215

ENCE689 **Seminar**

Credits: 1-16 Grading Method: Regular, Audit

Majors only. Other majors require permission of department.

Contact department for information to register for this course.

ENCE689B **Seminar; Land-Atmosphere Interactions in Hydrology**

Credits: 3 Grading Method: Regular, Audit

We discuss the role of hydrology in the climate system, precipitation and evaporation processes, atmospheric radiation, the exchange of mass, heat, and momentum between the soil and vegetative surface and the overlying atmosphere, and the flux and transport of water within the turbulent boundary layer. In addition, the role of satellite-based remote sensing observations in land-atmosphere analysis as well as sustainable hydrologic applications will be discussed.

0101	Barton Forman	Seats (Total: 20)
	TuTh 4:00pm - 5:15pm	EGR 0135

ENCE741 **Earth Retaining Structures**

Credits: 3 Grading Method: Regular, Audit

Introduction to types and uses of earth retaining structures, and lateral earth pressure concepts and theories. Analysis and design of retaining walls and shoring structures and their bracing systems. These include conventional retaining walls, mechanically stabilized earth walls, cantilever and anchored sheet piling, cellular cofferdams, braced cuts, soil nailing, and the design of tiebacks and anchors. Load and resistance factor design concept will be presented.

0101	Mohamed Aggour	Seats (Total: 25)
	Th 5:00pm - 7:30pm	EGR 1102

ENCE799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Majors only. Other majors require permission of department.

Contact department for information to register for this course.

ENCE898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

ENCE899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Majors only. Other majors require permission of department.

Contact department for information to register for this course.

ENCH Engineering, Chemical Fall 2018

ENCH609 **Graduate Seminar**

(Perm req)

Credits: 1 Grading Method: Regular, Audit

0101	Amy Karlsson	Seats (Total: 35)
	Tu 11:00am - 12:15pm	CHE 2108

ENCH610 **Chemical Engineering Thermodynamics**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: CHBE301; and CHBE302. Or students who have taken courses with comparable content may contact the department. Restriction: Permission of ENGR-Chemical & Biomolecular Engineering department.

Advanced application of the general thermodynamic methods to chemical engineering problems. First and second law consequences; estimation and correlation of thermodynamic properties; phase and chemical reaction equilibria.

0101	Mikhail Anisimov	Seats (Total: 35)
	TuTh 3:30pm - 4:45pm	AJC 2132

ENCH620 **Methods of Engineering Analysis**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MATH246; and CHBE250. Or students who have taken courses with comparable content may contact the department. Restriction: Permission of ENGR-Chemical & Biomolecular Engineering department.

Application of selected mathematical techniques to the analysis and solution of engineering problems; included are the applications of matrices, vectors, tensors, differential equations, integral transforms, and probability methods to such problems as unsteady heat transfer, transient phenomena in mass transfer operations, stagewise processes, chemical reactors, process control, and nuclear reactor physics.

0101	Nam Sun Wang	Seats (Total: 35)
	TuTh 5:00pm - 6:15pm	PHY 1219

ENCH648 **Special Problems in Chemical Engineering**

(Perm req)

Credits: 1-16

Grading Method: Regular, Audit

Contact department for information to register for this course.

ENCH648E **Special Problems in Chemical Engineering; Heterogeneous Catalysis for Energy Applications**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

0101	Dongxia Liu MW 5:00pm - 6:15pm	Seats (Total: 11) CHE 2110

ENCH648L **Special Problems in Chemical Engineering; Photovoltaics: Solar Energy**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

0101	Raymond Adomaitis TuTh 2:00pm - 3:15pm	Seats (Total: 15) JMP 2216
ME01	Raymond Adomaitis TuTh 2:00pm - 3:15pm	Seats (Total: 15) ONLINE

ENCH648P **Special Problems in Chemical Engineering; Protein Engineering**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

0101	Amy Karlsson TuTh 12:30pm - 1:45pm	Seats (Total: 7) EGR 1104

ENCH648Z **Special Problems in Chemical Engineering; Combustion and Reacting Flow**

Credits: 3

Grading Method: Regular, Audit

0101	Michael Zachariah TuTh 9:30am - 10:45am	Seats (Total: 1) SPH 0308

ENCH799 **Master's Thesis Research**

(Perm req)

Credits: 1-6

Grading Method: Regular

Contact department for information to register for this course.

ENCH898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

ENCH899 **Doctoral Dissertation Research; Chemical Engineering**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

ENCO Engineering, Cooperative Education Fall 2018

ENCO099 **Co-Op/Intern Work Experience**

(Perm req)

Credits: 0 Grading Method: Sat-Fail

Participation in a cooperative education (co-op) or internship program enables students to apply the theories that they have learned in their traditional classes with paid, supervised, career-related work experience that develops technical and professional work skills. Contact the Engineering Co-op & Career Services Office.

If dropping course, see Withdrawal and Refund of Fees - Special Refund Deadlines in the Financial Information section of the Schedule of Classes.

0101	Heidi Sauber, Veronica Perrigan	Seats (Total: 200)
	Contact instructor or department for details.	

ENEE Electrical & Computer Engineering Fall 2018

ENEE101 **Introduction to Electrical & Computer Engineering**

(Perm req)

Credits: 3 Grading Method: Regular

Corequisite: MATH140. And corequisite: ENEE140 or CMSC131; or a score of 5 on the A Java AP exam; or a score of 4 or 5 on the AB Java AP exam; or satisfactory performance on the department's placement exam. Restriction: Must be in one of the following programs (Engineering: Electrical; Engineering: Computer) ; and students cannot enroll in ENEE101 and ENES100 in the same semester.

An exploration of topics within Electrical & Computer Engineering (ECE). Students will be introduced to key elements of both the Electrical Engineering and Computer Engineering curriculum, including: circuits, computing systems and software, communications and controls, electrodynamics and waves, microelectronics, signal processing, and power systems.

0101	Joseph JaJa F 12:00pm - 1:15pm MW 8:00am - 9:50am	Seats (Total: 12) EGR 1202 AVW 1344	 Lab
0102	Joseph JaJa F 12:00pm - 1:15pm MW 10:00am - 11:50am	Seats (Total: 12) EGR 1202 AVW 1344	 Lab
0103	Joseph JaJa F 12:00pm - 1:15pm MW 12:00pm - 1:50pm	Seats (Total: 12) EGR 1202 AVW 1344	 Lab
0104	Joseph JaJa F 12:00pm - 1:15pm MW 2:00pm - 3:50pm	Seats (Total: 12) EGR 1202 AVW 1344	 Lab
0105	Joseph JaJa F 12:00pm - 1:15pm TuTh 8:00am - 9:50am	Seats (Total: 12) EGR 1202 AVW 1344	 Lab
0106	Joseph JaJa F 12:00pm - 1:15pm TuTh 10:00am - 11:50am	Seats (Total: 12) EGR 1202 AVW 1344	 Lab
0107	Joseph JaJa F 12:00pm - 1:15pm TuTh 12:00pm - 1:50pm	Seats (Total: 12) EGR 1202 AVW 1344	 Lab
0108	Joseph JaJa F 12:00pm - 1:15pm TuTh 2:00pm - 3:50pm	Seats (Total: 12) EGR 1202 AVW 1344	 Lab
0109	Joseph JaJa F 12:00pm - 1:15pm MW 4:00pm - 5:50pm	Seats (Total: 12) EGR 1202 AVW 1344	 Lab
0110	Joseph JaJa F 12:00pm - 1:15pm TuTh 4:00pm - 5:50pm	Seats (Total: 12) EGR 1202 AVW 1344	 Lab

ENEE140 Introduction to Programming Concepts for Engineers

(Perm req) Credits: 2 Grading Method: Regular

Prerequisite: Permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in Engineering: Electrical program; or must be in Engineering: Materials Science program.

Introduction to the programming environment: editing, compiling, UNIX, data types and variable scope; program selection, formatted/unformatted input/output, repetition, functions, arrays and strings.

0101	Tudor Dumitras Tu 9:30am - 10:45am WF 8:00am - 8:50am	Seats (Total: 12) ATL 2324 AVW 2446	Discussion
0102	Tudor Dumitras Tu 9:30am - 10:45am WF 9:00am - 9:50am	Seats (Total: 12) ATL 2324 AVW 2446	Discussion
0103	Tudor Dumitras Tu 9:30am - 10:45am WF 10:00am - 10:50am	Seats (Total: 12) ATL 2324 AVW 2446	Discussion
0104	Tudor Dumitras Tu 9:30am - 10:45am WF 11:00am - 11:50am	Seats (Total: 12) ATL 2324 AVW 2446	Discussion
0105	Tudor Dumitras Tu 9:30am - 10:45am WF 1:00pm - 1:50pm	Seats (Total: 12) ATL 2324 AVW 2446	Discussion
0106	Tudor Dumitras Tu 9:30am - 10:45am WF 2:00pm - 2:50pm	Seats (Total: 12) ATL 2324 AVW 2446	Discussion

ENEE142 **Programming Elements for pre-service STEM teachers**

Credits: 3 Grading Method: Regular General Education: DSSP

Restriction: Must be in a major in EDUC-College of Education.

An introduction to programming concepts and computational thinking with STEM applications for preservice teachers with little or no previous programming experience. Python 3 programming is introduced in the context of simple STEM applications and elements of engineering hardware that are needed to design, build, and run STEM experiments and applications are taught.

0101	Wesley Lawson MW 12:00pm - 12:50pm F 12:00pm - 2:50pm	Seats (Total: 10) EGR 3114 Location: TBA	 Lab

ENEE150 **Intermediate Programming Concepts for Engineers**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Permission of ENGR-Electrical & Computer Engineering department. And ENEE140 or CMSC131; or score of 5 on the A Java AP exam; or score of 4 or 5 on the AB Java AP exam; or satisfactory performance on the department's placement exam. Corequisite: MATH140. Restriction: Must be in Engineering: Electrical program. Credit only granted for: ENEE114 or ENEE150. Formerly: ENEE114.

Advanced programming concepts: coding conventions and style; pointers; dynamic memory allocation and data structures; linked lists; graphs; abstract data types; object-oriented design. There will be team-based software projects and group presentations.

0101	Gang Qu TuTh 11:00am - 12:15pm F 8:00am - 8:50am	Seats (Total: 12) EGR 0108 AVW 1442	 Discussion
0102	Gang Qu TuTh 11:00am - 12:15pm F 9:00am - 9:50am	Seats (Total: 12) EGR 0108 AVW 1442	 Discussion
0103	Gang Qu TuTh 11:00am - 12:15pm F 10:00am - 10:50am	Seats (Total: 12) EGR 0108 AVW 1442	 Discussion
0104	Gang Qu TuTh 11:00am - 12:15pm F 2:00pm - 2:50pm	Seats (Total: 12) EGR 0108 AVW 1442	 Discussion

ENEE200 **Technology and Consequences: Engineering, Ethics, and Humanity**

Credits: 3 Grading Method: Regular CORE: IE General Education: DSHU, SCIS

What makes a technology socially responsible? At UMD, the Fearless Ideas campaign asks us to aim our enthusiasm for technology at big real problems. At the same time, we are coming to appreciate the increasingly complex nature of technological systems as they become integrated into all forms of infrastructure, we realize they may be unpredictable, interdependent on social and biological systems, and have unintended consequences. In this midst of this complexity, people make decisions with far reaching impacts. How then do we follow our passion for technology and innovation but also stay skeptical in a way that allows us to consider the potential and shortcomings of technology? Designed for both engineering and non-engineering students wishing to explore and assess the impact of engineering technology on society and the role of society in generating that technology.

0101	Misti Yang Tu 9:30am - 10:45am Th 9:30am - 10:20am F 9:00am - 10:15am	Seats (Total: 16) TWS 0310 TWS 0310 PLS 1168	 Discussion
0102	Misti Yang Tu 9:30am - 10:45am Th 9:30am - 10:20am F 10:30am - 11:45am	Seats (Total: 16) TWS 0310 TWS 0310 PLS 1168	 Discussion
0103	Misti Yang Tu 9:30am - 10:45am Th 9:30am - 10:20am F 12:00pm - 1:15pm	Seats (Total: 16) TWS 0310 TWS 0310 CHM 0122	 Discussion
0104	Misti Yang Tu 9:30am - 10:45am Th 9:30am - 10:20am F 1:30pm - 2:45pm	Seats (Total: 16) TWS 0310 TWS 0310 CHM 0122	 Discussion
0105	Misti Yang Tu 9:30am - 10:45am Th 9:30am - 10:20am F 3:00pm - 4:15pm	Seats (Total: 16) TWS 0310 TWS 0310 PLS 1168	 Discussion
0201	Nicole Mogul Tu 3:30pm - 4:45pm Th 3:30pm - 4:20pm F 9:00am - 10:15am	Seats (Total: 16) TWS 0310 TWS 0310 CHM 0127	 Discussion

0202	Nicole Mogul	Seats (Total: 16)	
	Tu 3:30pm - 4:45pm	TWS 0310	
	Th 3:30pm - 4:20pm	TWS 0310	
	F 10:30am - 11:45am	CHM 0127	Discussion
0203	Nicole Mogul	Seats (Total: 16)	
	Tu 3:30pm - 4:45pm	TWS 0310	
	Th 3:30pm - 4:20pm	TWS 0310	
	F 12:00pm - 1:15pm	CHM 0119	Discussion
0204	Nicole Mogul	Seats (Total: 16)	
	Tu 3:30pm - 4:45pm	TWS 0310	
	Th 3:30pm - 4:20pm	TWS 0310	
	F 1:30pm - 2:45pm	CHM 0119	Discussion
0205	Nicole Mogul	Seats (Total: 16)	
	Tu 3:30pm - 4:45pm	TWS 0310	
	Th 3:30pm - 4:20pm	TWS 0310	
	F 3:00pm - 4:15pm	CHM 0119	Discussion

ENEE205 **Electric Circuits**

(Perm req)

Credits: 4 Grading Method: Regular

Prerequisite: Minimum grade of C- in PHYS260; and minimum grade of C- in PHYS261; and permission of ENGR-Electrical & Computer Engineering department. Corequisite: MATH246. Restriction: Must be in one of the following programs (Engineering: Computer; Engineering: Electrical). Credit only granted for: ENEE204 or ENEE205. Formerly: ENEE204.

Design, analysis, simulation, construction and evaluation of electric circuits. Terminal Relationships. Kirchoff's laws. DC and AC steady state analysis. Node and mesh methods. Thevenin and Norton equivalent circuits. Transient behavior of first- and second-order circuits. Frequency response and transfer functions. Ideal op-amp circuits. Diode and transistor circuits.

0101	Wesley Lawson	Seats (Total: 12)	
	MW 2:00pm - 3:15pm	PLS 1130	
	Tu 12:00pm - 1:50pm	AVW 1356	Lab
	Tu 11:00am - 11:50am	AVW 1356	Discussion
0102	Wesley Lawson	Seats (Total: 12)	
	MW 2:00pm - 3:15pm	PLS 1130	
	Tu 9:00am - 10:50am	AVW 1356	Lab
	Tu 8:00am - 8:50am	AVW 1356	Discussion

0103	Wesley Lawson	Seats (Total: 12)	
	MW 2:00pm - 3:15pm	PLS 1130	
	Th 12:00pm - 1:50pm	AVW 1356	Lab
	Th 11:00am - 11:50am	AVW 1356	Discussion
0104	Wesley Lawson	Seats (Total: 12)	
	MW 2:00pm - 3:15pm	PLS 1130	
	Th 9:00am - 10:50am	AVW 1356	Lab
	Th 8:00am - 8:50am	AVW 1356	Discussion
0105	Wesley Lawson	Seats (Total: 12)	
	MW 2:00pm - 3:15pm	PLS 1130	
	W 12:00pm - 1:50pm	AVW 1356	Lab
	W 11:00am - 11:50am	AVW 1356	Discussion
0201	Romel Gomez	Seats (Total: 12)	
	TuTh 9:30am - 10:45am	EGR 0108	
	M 12:00pm - 1:50pm	AVW 1356	Lab
	M 11:00am - 11:50am	AVW 1356	Discussion
0202	Romel Gomez	Seats (Total: 12)	
	TuTh 9:30am - 10:45am	EGR 0108	
	M 3:00pm - 4:50pm	AVW 1356	Lab
	M 2:00pm - 2:50pm	AVW 1356	Discussion
0203	Romel Gomez	Seats (Total: 12)	
	TuTh 9:30am - 10:45am	EGR 0108	
	W 3:00pm - 4:50pm	AVW 1356	Lab
	W 2:00pm - 2:50pm	AVW 1356	Discussion
0204	Romel Gomez	Seats (Total: 12)	
	TuTh 9:30am - 10:45am	EGR 0108	
	F 9:00am - 10:50am	AVW 1356	Lab
	F 8:00am - 8:50am	AVW 1356	Discussion
0205	Romel Gomez	Seats (Total: 12)	
	TuTh 9:30am - 10:45am	EGR 0108	
	M 9:00am - 10:50am	AVW 1356	Lab
	M 8:00am - 8:50am	AVW 1356	Discussion

ENEE222 Elements of Discrete Signal Analysis

(Perm req) Credits: 4 Grading Method: Regular

Prerequisite: Minimum grade of C- in MATH141; and permission of ENGR-Electrical & Computer Engineering department. And minimum grade of C- in ENEE140; or minimum grade of C- in CMSC131. Restriction: Must be in one of the following programs (Engineering: Electrical; Engineering: Computer). Credit only granted for: ENEE222, ENEE241, or MATH242. Formerly: ENEE241.

Discrete-time and continuous-time signals, sampling. Linear transformers, orthogonal projections. Discrete Fourier Transform and its properties. Fourier Series. Introduction to discrete-time linear filters in both time and frequency domains.

0101	Armand Makowski	Seats (Total: 22)	
	MW 11:00am - 12:15pm	AJC 2132	
	Th 9:00am - 9:50am	KEB 2107	Lab
	Tu 9:00am - 9:50am	KEB 2107	Discussion
0102	Armand Makowski	Seats (Total: 22)	
	MW 11:00am - 12:15pm	AJC 2132	
	Th 10:00am - 10:50am	KEB 2107	Lab
	Tu 10:00am - 10:50am	KEB 2107	Discussion
0201	Adrianos Papamarcou	Seats (Total: 22)	
	TuTh 11:00am - 12:15pm	CSI 1121	
	F 9:00am - 9:50am	KEB 2107	Lab
	W 9:00am - 9:50am	KEB 2107	Discussion
0202	Adrianos Papamarcou	Seats (Total: 22)	
	TuTh 11:00am - 12:15pm	CSI 1121	
	F 10:00am - 10:50am	KEB 2107	Lab
	W 10:00am - 10:50am	KEB 2107	Discussion
0301	Gilmer Blankenship	Seats (Total: 22)	
	MW 3:30pm - 4:45pm	AJC 2121	
	Tu 11:00am - 11:50am	KEB 2107	Lab
	Th 11:00am - 11:50am	KEB 2107	Discussion
0302	Gilmer Blankenship	Seats (Total: 22)	
	MW 3:30pm - 4:45pm	AJC 2121	
	Tu 12:00pm - 12:50pm	KEB 2107	Lab
	Th 12:00pm - 12:50pm	KEB 2107	Discussion

ENEE244 Digital Logic Design

(Perm req) Credits: 3 Grading Method: Regular

Prerequisite: Must have completed or be concurrently enrolled in CMSC132 or ENEE150; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Sophomore standing or higher; and must be in one of the following programs (Engineering: Computer; Engineering: Electrical).

The design and analysis of combinational and synchronous sequential systems comprising digital logic gates and flip-flop memory devices; underlying tools such as switching and Boolean algebras and Karnaugh map simplification of gate networks; design and use of decoders, multiplexers, encoders, adders, registers, counters, sequence recognizers, programmable logic arrays (PLAs), read-only memories (ROMS, PROMS), and similar devices. Arbitrary radix conversion.

Engineering College only (04).

0101	Joseph JaJa MW 12:30pm - 1:45pm Th 8:00am - 8:50am	Seats (Total: 13) KEB 1110 CHE 2116	Discussion
0102	Joseph JaJa MW 12:30pm - 1:45pm Th 10:00am - 10:50am	Seats (Total: 13) KEB 1110 CHE 2116	Discussion
0103	Joseph JaJa MW 12:30pm - 1:45pm Th 3:00pm - 3:50pm	Seats (Total: 13) KEB 1110 EGR 3111	Discussion
0104	Joseph JaJa MW 12:30pm - 1:45pm Th 4:00pm - 4:50pm	Seats (Total: 13) KEB 1110 EGR 3111	Discussion
0105	Joseph JaJa MW 12:30pm - 1:45pm Th 9:00am - 9:50am	Seats (Total: 13) KEB 1110 CHE 2116	Discussion
0106	Joseph JaJa MW 12:30pm - 1:45pm Th 11:00am - 11:50am	Seats (Total: 13) KEB 1110 JMZ 1123	Discussion
0201	Jerry Wu TuTh 2:00pm - 3:15pm M 9:00am - 9:50am	Seats (Total: 13) ARM 0131 CHE 2140	Discussion

0202	Jerry Wu TuTh 2:00pm - 3:15pm M 10:00am - 10:50am	Seats (Total: 13) ARM 0131 EGR 3111	 Discussion
0203	Jerry Wu TuTh 2:00pm - 3:15pm M 11:00am - 11:50am	Seats (Total: 13) ARM 0131 EGR 3111	 Discussion
0204	Jerry Wu TuTh 2:00pm - 3:15pm M 12:00pm - 12:50pm	Seats (Total: 13) ARM 0131 EGR 3111	 Discussion
0205	Jerry Wu TuTh 2:00pm - 3:15pm M 1:00pm - 1:50pm	Seats (Total: 13) ARM 0131 EGR 3111	 Discussion
0206	Jerry Wu TuTh 2:00pm - 3:15pm M 2:00pm - 2:50pm	Seats (Total: 13) ARM 0131 EGR 3111	 Discussion

ENEE245 **Digital Circuits and Systems Laboratory**

(Perm req)

Credits: 2 Grading Method: Regular

Prerequisite: Minimum grade of C- in ENEE244. And minimum grade of C- in ENEE150; or minimum grade of C- in CMSC132. And permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in one of the following programs (Engineering: Electrical; Engineering: Computer).

Introduction to basic measurement techniques and electrical laboratory equipment (power supplies, oscilloscopes, voltmeters, etc.). Design, construction, and characterization of digital circuits containing logic gates, sequential elements, oscillators, and digital integrated circuits. Introduction to digital design and simulation with the Verilog Hardware Description Language (HDL).

0101	Manoj Franklin M 10:00am - 10:50am M 2:00pm - 4:50pm	Seats (Total: 12) CSI 1115 AVW 1450	 Lab
0102	Manoj Franklin M 10:00am - 10:50am Tu 8:00am - 10:50am	Seats (Total: 12) CSI 1115 AVW 1450	 Lab

0103	Manoj Franklin M 10:00am - 10:50am W 11:00am - 1:50pm	Seats (Total: 12) CSI 1115 AVW 1450	Lab
0104	Manoj Franklin M 10:00am - 10:50am Th 11:00am - 1:50pm	Seats (Total: 12) CSI 1115 AVW 1450	Lab
0105	Manoj Franklin M 10:00am - 10:50am F 2:00pm - 4:50pm	Seats (Total: 12) CSI 1115 AVW 1450	Lab
0106	Manoj Franklin M 10:00am - 10:50am Tu 2:00pm - 4:50pm	Seats (Total: 12) CSI 1115 AVW 1450	Lab
0107	Manoj Franklin M 10:00am - 10:50am Tu 11:00am - 1:50pm	Seats (Total: 12) CSI 1115 AVW 1450	Lab
0108	Manoj Franklin M 10:00am - 10:50am W 8:00am - 10:50am	Seats (Total: 12) CSI 1115 AVW 1450	Lab

ENEE303 **Analog and Digital Electronics**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in ENEE205; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in one of the following programs (Engineering: Electrical; Engineering: Computer).

Conceptual operation of transistors and diodes. Large and small signal operation of BJTs and MOSFETs. Basic transistor configurations. Logic circuits and semiconductor memory. Multi-transistor circuits including differential amplifiers and current mirrors. Frequency response.

0101	Timothy Horiuchi MW 9:30am - 10:45am F 9:00am - 9:50am	Seats (Total: 25) ESJ 2212 EGR 1102	Discussion
0102	Timothy Horiuchi MW 9:30am - 10:45am F 10:00am - 10:50am	Seats (Total: 25) ESJ 2212 EGR 1102	Discussion

0201	Timothy Horiuchi MW 2:00pm - 3:15pm F 12:00pm - 12:50pm	Seats (Total: 25) KEB 1110 EGR 3114	Discussion
0202	Timothy Horiuchi MW 2:00pm - 3:15pm F 1:00pm - 1:50pm	Seats (Total: 25) KEB 1110 EGR 1102	Discussion
0301	Manoj Franklin TuTh 12:30pm - 1:45pm M 8:00am - 8:50am	Seats (Total: 25) EGR 1108 EGR 3102	Discussion
0302	Manoj Franklin TuTh 12:30pm - 1:45pm M 9:00am - 9:50am	Seats (Total: 25) EGR 1108 EGR 3102	Discussion

ENEE303H **Analog and Digital Electronics**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in ENEE205; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in one of the following programs (Engineering: Electrical; Engineering: Computer).

Conceptual operation of transistors and diodes. Large and small signal operation of BJTs and MOSFETs. Basic transistor configurations. Logic circuits and semiconductor memory. Multi-transistor circuits including differential amplifiers and current mirrors. Frequency response.

0101	Manoj Franklin TuTh 12:30pm - 1:45pm W 10:00am - 10:50am	Seats (Total: 15) EGR 1108 EGR 3102	Discussion

ENEE307 **Electronic Circuits Design Laboratory**

(Perm req)

Credits: 2 Grading Method: Regular

Prerequisite: Minimum grade of C- in ENEE303; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in one of the following programs (Engineering: Computer; Engineering: Electrical).

Students will design and test analog and digital circuits at the transistor level. FETs and BJTs will be covered. The laboratory experiments will be tightly coordinated with ENEE303 materials.

0101	Neil Goldsman W 10:00am - 10:50am M 8:00am - 11:00am	Seats (Total: 12) CSI 1115 AVW 1330	 Lab
0102	Neil Goldsman W 10:00am - 10:50am M 11:00am - 2:00pm	Seats (Total: 12) CSI 1115 AVW 1330	 Lab
0103	Neil Goldsman W 10:00am - 10:50am M 2:00pm - 5:00pm	Seats (Total: 12) CSI 1115 AVW 1330	 Lab
0104	Neil Goldsman W 10:00am - 10:50am Tu 8:00am - 11:00am	Seats (Total: 12) CSI 1115 AVW 1330	 Lab
0105	Neil Goldsman W 10:00am - 10:50am Th 8:00am - 11:00am	Seats (Total: 12) CSI 1115 AVW 1330	 Lab
0106	Neil Goldsman W 10:00am - 10:50am F 8:00am - 11:00am	Seats (Total: 12) CSI 1115 AVW 1330	 Lab
0107	Neil Goldsman W 10:00am - 10:50am F 11:00am - 2:00pm	Seats (Total: 12) CSI 1115 AVW 1330	 Lab
0108	Neil Goldsman W 10:00am - 10:50am W 2:00pm - 5:00pm	Seats (Total: 12) CSI 1115 AVW 1330	 Lab
0109	Neil Goldsman W 10:00am - 10:50am Th 2:00pm - 5:00pm	Seats (Total: 12) CSI 1115 AVW 1330	 Lab
0110	Neil Goldsman W 10:00am - 10:50am Tu 2:00pm - 5:00pm	Seats (Total: 12) CSI 1115 AVW 1330	 Lab

ENEE313 Introduction to Device Physics

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in ENEE205; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in one of the following programs (Engineering: Electrical; Engineering: Computer). Credit only granted for: ENEE312 or ENEE313.

Basic physics of devices including fields in solids, crystal structure, properties of electrons and holes. Current flow in Si using drift-diffusion model. Properties of the pn junction. Properties of devices including BJTs, FETs and their physical characteristics.

0101	Martin Peckerar TuTh 5:00pm - 6:15pm M 2:00pm - 2:50pm	Seats (Total: 25) EGR 1108 EGR 3102	 Discussion
0201	Agisilaos Iliadis MW 11:00am - 12:15pm F 10:00am - 10:50am	Seats (Total: 25) EGR 0108 CHE 2145	 Discussion
0202	Agisilaos Iliadis MW 11:00am - 12:15pm F 11:00am - 11:50am	Seats (Total: 25) EGR 0108 CHE 2145	 Discussion

ENEE322 **Signal and System Theory**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in MATH246; and minimum grade of C- in ENEE222; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in one of the following programs (Engineering: Computer; Engineering: Electrical).

Concept of linear systems, state space equations for continuous systems, time and frequency domain analysis of signals and linear systems. Fourier, Laplace and Z transforms. Application of theory to problems in electrical engineering.

ENEE majors (09090) only.

0101	Carol Espy-Wilson MW 2:00pm - 3:15pm F 8:00am - 8:50am	Seats (Total: 15) EGR 1104 EGR 2116	 Discussion
0102	Carol Espy-Wilson MW 2:00pm - 3:15pm F 9:00am - 9:50am	Seats (Total: 25) EGR 1104 EGR 2116	 Discussion

0201	Andre Tits TuTh 9:30am - 10:45am W 8:00am - 8:50am	Seats (Total: 25) JMP 2121 EGR 1102	 Discussion
0202	Andre Tits TuTh 9:30am - 10:45am W 9:00am - 9:50am	Seats (Total: 25) JMP 2121 EGR 1102	 Discussion
0301	Mark Shayman TuTh 3:30pm - 4:45pm M 8:00am - 8:50am	Seats (Total: 25) EGR 1108 EGR 2154	 Discussion
0302	Mark Shayman TuTh 3:30pm - 4:45pm M 9:00am - 9:50am	Seats (Total: 25) EGR 1108 EGR 2154	 Discussion

ENEE322H **Signal and System Theory**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in MATH246; and minimum grade of C- in ENEE222; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in one of the following programs (Engineering: Computer; Engineering: Electrical).

Concept of linear systems, state space equations for continuous systems, time and frequency domain analysis of signals and linear systems. Fourier, Laplace and Z transforms. Application of theory to problems in electrical engineering.

0101	Adrianos Papamarcou TuTh 3:30pm - 4:45pm M 11:00am - 11:50am	Seats (Total: 18) AJC 2121 EGR 3114	 Discussion

ENEE324 **Engineering Probability**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in ENEE322; and permission of ENGR-Electrical & Computer Engineering department. Credit only granted for: BMGT231, STAT400 or ENEE324. Additional information: Electrical Engineering and Computer Engineering majors may not substitute STAT400 for ENEE324. These courses are not interchangeable, consult your program requirements or advisor for what is acceptable toward your program of study.

Axioms of probability; conditional probability and Bayes' rules; random variables, probability distribution and densities: functions of random variables: weak law of large numbers and central limit theorem. Introduction to random processes; correlation functions, spectral densities, and linear systems. Applications to noise in electrical systems, filtering of signals from noise, estimation, and digital communications.

ENEE majors (09090) only.

0102	Manoj Franklin MW 2:00pm - 3:15pm F 9:00am - 9:50am	Seats (Total: 20) AJC 2132 EGR 1110	 Discussion
0201	Anthony Ephremides TuTh 12:30pm - 1:45pm W 8:00am - 8:50am	Seats (Total: 20) KEB 1110 EGR 2116	 Discussion
0202	Anthony Ephremides TuTh 12:30pm - 1:45pm W 9:00am - 9:50am	Seats (Total: 20) KEB 1110 EGR 2116	 Discussion
0301	Prakash Narayan TuTh 3:30pm - 4:45pm M 8:00am - 8:50am	Seats (Total: 20) KEB 1110 SYM 0209	 Discussion
0302	Prakash Narayan TuTh 3:30pm - 4:45pm M 9:00am - 9:50am	Seats (Total: 20) KEB 1110 SYM 0209	 Discussion

ENEE350 **Computer Organization**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in ENEE244; and 1 course with a minimum grade of C- from (ENEE150, CMSC132); and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in one of the following programs (Engineering: Computer; Engineering: Electrical). Formerly: ENEE250.

Structure and organization of digital computers. Registers, memory, control and I/O. Data and instruction formats, addressing modes, assembly language programming. Elements of system software, subroutines and their linkages.

ENEE majors (09090) only

0101	Charles Silio MW 11:00am - 12:15pm F 12:00pm - 12:50pm	Seats (Total: 25) KEB 1110 JMP 1109	Discussion
0201	Yavuz Oruc TuTh 12:30pm - 1:45pm W 11:00am - 11:50am	Seats (Total: 25) JMP 3201 CHE 2145	Discussion
0202	Yavuz Oruc TuTh 12:30pm - 1:45pm W 12:00pm - 12:50pm	Seats (Total: 25) JMP 3201 CHE 2145	Discussion
0301	Rajeev Barua MW 2:00pm - 3:15pm F 12:00pm - 12:50pm	Seats (Total: 20) KEB 1200 CSI 2118	Discussion
0302	Rajeev Barua MW 2:00pm - 3:15pm F 1:00pm - 1:50pm	Seats (Total: 20) KEB 1200 CSI 2118	Discussion

ENEE350H **Computer Organization**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in ENEE244; and 1 course with a minimum grade of C- from (ENEE150, CMSC132); and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in one of the following programs (Engineering: Computer; Engineering: Electrical). Formerly: ENEE250.

Structure and organization of digital computers. Registers, memory, control and I/O. Data and instruction formats, addressing modes, assembly language programming. Elements of system software, subroutines and their linkages.

For general honors students only.

0101	Rajeev Barua MW 2:00pm - 3:15pm F 2:00pm - 2:50pm	Seats (Total: 15) KEB 1200 CHE 2140	Discussion

ENEE380 **Electromagnetic Theory**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in ENEE205; and minimum grade of C- in MATH241, PHYS270, and PHYS271; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in Engineering: Electrical program.

Introduction to electromagnetic fields. Coulomb's law, Gauss's law, electrical potential, dielectric materials capacitance, boundary value problems, Biot-Savart law, Ampere's law, Lorentz force equation, magnetic materials, magnetic circuits, inductance, time varying fields and Maxwell's equations.

ENEE majors (09090) only.

0101	Mario Dagenais MW 12:30pm - 1:45pm Tu 11:00am - 11:50am	Seats (Total: 25) EGR 1108 ESJ B0320	 Discussion
0102	Mario Dagenais MW 12:30pm - 1:45pm Tu 12:00pm - 12:50pm	Seats (Total: 25) EGR 1108 ESJ B0320	 Discussion
0201	Julius Goldhar TuTh 11:00am - 12:15pm W 4:00pm - 4:50pm	Seats (Total: 20) ATL 1113 CHM 0122	 Discussion
0202	Julius Goldhar TuTh 11:00am - 12:15pm W 5:00pm - 5:50pm	Seats (Total: 20) ATL 1113 CHM 0122	 Discussion

ENEE380H **Electromagnetic Theory**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in ENEE205; and minimum grade of C- in MATH241, PHYS270, and PHYS271; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in Engineering: Electrical program.

Introduction to electromagnetic fields. Coulomb's law, Gauss's law, electrical potential, dielectric materials capacitance, boundary value problems, Biot-Savart law, Ampere's law, Lorentz force equation, magnetic materials, magnetic circuits, inductance, time varying fields and Maxwell's equations.

0101	Julius Goldhar TuTh 11:00am - 12:15pm W 11:00am - 11:50am	Seats (Total: 20) ATL 1113 EGR 1102	 Discussion

ENEE381 **Electromagnetic Wave Propagation**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in ENEE380; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in Engineering: Electrical program.

The electromagnetic spectrum: Review of Maxwell's equations; the wave equation potentials, Poynting's theorem, relationship between circuit theory and fields; propagation of electromagnetic waves in homogeneous media and at interfaces; transmission line theory, waveguides, radiation and antennas.

ENEE majors only (09090).

0101	Danilo Romero TuTh 11:00am - 12:15pm F 2:00pm - 2:50pm	Seats (Total: 20) CSI 1115 AJC 2134	 Discussion
0102	Danilo Romero TuTh 11:00am - 12:15pm F 3:00pm - 3:50pm	Seats (Total: 20) CSI 1115 AJC 2134	 Discussion

ENEE407 **Design & Testing of RF and Microwave Devices**

(Perm req)

Credits: 2 Grading Method: Regular

Prerequisite: Minimum grade of C- in ENEE381; and must have earned a minimum grade of regular (letter) C- in all required 200-level ENEE courses; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in one of the following programs (Engineering: Computer; Engineering: Electrical) ; and permission of ENGR-Electrical & Computer Engineering department.

An introduction to state of the art design, and testing techniques of RF and microwave devices. Designs, simulations and layout of different devices are performed using the software package ADS (Advance Design System). The course highlights wide range of engineering applications including terrestrial microwave links, satellite communications, broadcasting, mobile communications and radar.

0101	Kawthar Zaki Tu 11:00am - 11:50am Th 9:30am - 12:30pm	Seats (Total: 12) AVW 2446 AVW 2446	 Lab

ENEE408A **Capstone Design Project:Microprocessor-Based Design**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: CS

Prerequisite: ENEE440 or permission of the instructor. This course provides a team-based experience in the design and implementation of a microprocessor-based system to solve a real-world problem. A product specification or client requirement forms the basis for the student teams development of an initial technical design specification. The team then divides into smaller groups for the parallel development of hardware and software subsystems of the product device. Upon completion and test of the various subsystems, software and hardware components are integrated into the system prototype and the system is tested and documented.

0101	William Hawkins	Seats (Total: 12)	
	Th 9:30am - 10:20am	EGR 3114	
	Contact instructor or department for details.		

ENEE408C **Capstone Design Project: Modern Digital System Design**

(Perm req)

Credits: 3 Grading Method: Regular CORE: CS

Prerequisite(s): ENEE 350. Corequisite(s): ENEE 446 (Recommended) A real-world digital system design experience that prepares students for careers in FPGA and ASIC design. Student teams use the Verilog hardware description language together with industry-standard simulation and synthesis tools to design medium-complexity digital chips that are ultimately configured and tested on FPGAs with real-world applications. Results from these projects will be presented through in-class presentations and written reports.

0101	Shuvra Bhattacharyya	Seats (Total: 16)	
	Tu 3:30pm - 4:45pm	KEB 2107	
	Th 2:00pm - 4:50pm	KEB 2107	Lab

ENEE408E **Capstone Design Project: Optical System Design**

(Perm req)

Credits: 3 Grading Method: Regular CORE: CS

Prerequisite(s): ENEE 380. Corequisite(s): ENEE 381. The purpose of this course is to teach optical analysis and design techniques by reference to the performance of many different optical components and systems. Attention will be given to real world design in terms of component selection, optimization, and integration into systems

0101	Chensheng Wu	Seats (Total: 30)	
	MW 11:00am - 12:15pm	BPS 1232	

ENEE408I **Capstone Design Project: Autonomous Control of Interacting Robots**

(Perm req)

Credits: 3 Grading Method: Regular CORE: CS

Prerequisite: ENEE322; Electrical or Computer Engineering seniors in their last semester. Co-requisite: ENEE460 or ENEE463. The course involves students in the design,development, and application of autonomous robotic systems.The robots are 4 wheeled vehicles with on-board sensors (cameras, acoustic sensors),computers and wireless communications capabilities. The students work in teams to program the the robots to accomplish a task individually and in teams of 2 or more robots. Applications vary from semester to semester, including racing with passing, soccer, search and identify.

0101	Gilmer Blankenship	Seats (Total: 15)	
	M 10:00am - 10:50am	EGR 2116	
	W 11:00am - 1:50pm	KEB 3209	Lab

ENEE408K **Capstone Design Project; Electric Cars**

(Perm req)

Credits: 3 Grading Method: Regular

Culmination of prior course work in electrical and computer engineering Utilization of modern design tools and methodologies for the design of components or systems under realistic constraints, with particular emphasis on teamwork and oral/written communication. Areas in which projects are currently offered include: microprocessor-based systems, digital systems, VLSI design (both digital and mixed-signal), and optical systems.

Prerequisites: ENEE303, Electrical or Computer Engineering seniors in their last year of their program. Recommended co-requisite: ENEE476 or ENEE475. Restriction: Permission of Electrical & Computer Engineering. A capstone course on the design of electric cars, which will be designedwith the objective to participate in the Formula SAE racing competition.This is a system level design course, which will eventually use a combination of off-the-shelf components. The major components inside theelectric car include lectric motor, power inverter, drive circuit, battery management system, sensors and encoders etc. This course will also discuss level simulation of electric vehicle along with the electrical components in Autonomie software.

0101	Alireza Khaligh	Seats (Total: 29)	
	M 12:30pm - 1:20pm	AJC 2132	
	W 11:00am - 1:50pm	ATL 2330	Lab

ENEE408L **Capstone Design Project; Electric Guitar Design**

(Perm req)

Credits: 3 Grading Method: Regular

Culmination of prior course work in electrical and computer engineering Utilization of modern design tools and methodologies for the design of components or systems under realistic constraints, with particular emphasis on teamwork and oral/written communication. Areas in which projects are currently offered include: microprocessor-based systems, digital systems, VLSI design (both digital and mixed-signal), and optical systems.

Prerequisites: ENEE205, ENEE245, ENEE303, ENEE307. Electrical or Computer Engineering majors in their final year of their program. Restriction: Permission of Electrical & Computer Engineering Department required. Modern electric guitars contain both EE and CE components; the fundamentals are EE-based, but an increasing number of current designs incorporate CE-based concepts such as active digital control circuits, digital signal processors, and many embedded digital effects units. This class will teach the skills necessary for good product design and development in the real world, using as a motivating example the electric guitar, and integrating computer-engineering skills and concepts.

0101	Bruce Jacob	Seats (Total: 12)	
	W 10:00am - 10:50am	AVW 1424	
	W 11:00am - 1:50pm	AVW 1424	Lab

ENEE411 **Advanced Analog and Digital Electronics**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in ENEE303. Restriction: Must be in one of the following programs (Engineering: Electrical; Engineering: Computer) ; and must have permission of the department. Credit only granted for: ENEE411 or ENEE419A. Formerly: ENEE419A.

Examination of analog and digital device models for analysis, design, and simulation of transistor level electronic circuits, emphasizing Metal Oxide Silicon Field Effect Transistors (MOSFETs); fundamental single transistor configurations; frequency response, feedback, and stability of multi-transistor circuits, such as current mirrors, differential amplifiers, voltage references, operational amplifiers and data converters; complementary Metal Oxide Silicon (CMOS) implementations of static and clocked digital as well as mixed signal circuits.

0101	Pamela Abshire	Seats (Total: 30)
	MW 3:30pm - 4:45pm	EGR 0135

ENEE416 **Integrated Circuit Fabrication Laboratory**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in ENEE303; and must have earned a minimum grade of regular (letter) C- in all required 200-level ENEE courses; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in one of the following programs (Engineering: Computer; Engineering: Electrical). Formerly: ENEE419J.

Characterization of wafers and fabrication steps. Oxide growth, lithography, dopant diffusion, and metal deposition and patterning will be discussed in the lectures and carried out in the lab in fabricating NMOS transistor circuits. The transistor characteristics will be measured and related to the fabrication parameters.

0101	Kevin Daniels Th 11:00am - 12:15pm Tu 9:00am - 12:00pm	Seats (Total: 5) EGR 3114 KEB 2300	 Lab
0102	Kevin Daniels Th 11:00am - 12:15pm W 12:30pm - 3:30pm	Seats (Total: 5) EGR 3114 KEB 2300	 Lab
0103	Kevin Daniels Th 11:00am - 12:15pm M 12:30pm - 3:30pm	Seats (Total: 5) EGR 3114 KEB 2300	 Lab
0104	Kevin Daniels Th 11:00am - 12:15pm W 9:00am - 12:00pm	Seats (Total: 5) EGR 3114 KEB 2300	 Lab
0105	Kevin Daniels Th 11:00am - 12:15pm F 9:00am - 12:00pm	Seats (Total: 5) EGR 3114 KEB 2300	 Lab

ENEE420 **Communication Systems**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: ENEE324; and completion of all lower-division technical courses in the EE curriculum.

Fourier series, Fourier transforms and linear system analysis; random signals, autocorrelation functions and power spectral densities; analog communication systems: amplitude modulation, single-sideband modulation, frequency and phase modulation, sampling theorem and pulse-amplitude modulation; digital communication systems pulse-code modulation, phase-shift keying, differential phase shift keying, frequency shift keying; performance of analog and digital communication systems in the presence of noise.

ENEE majors (09090) only.

0101	Mark Shayman TuTh 9:30am - 10:45am	Seats (Total: 30) AJC 2121	

ENEE425 **Digital Signal Processing**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: ENEE322; and completion of all lower-division technical courses in the EE curriculum.

Sampling as a modulation process; aliasing; the sampling theorem; the Z-transform and discrete-time system analysis; direct and computer-aided design of recursive and nonrecursive digital filters; the Discrete Fourier Transform (DFT) and Fast Fourier Transform (FFT); digital filtering using the FFT; analog-to-digital and digital-to analog conversion; effects of quantization and finite-word-length arithmetic.

ENEE majors (09090) only.

0101	KJ Ray Liu	Seats (Total: 40)
	MW 11:00am - 12:15pm	EGR 0135

ENEE428 **Communications Design Laboratory**

(Perm req)

Credits: 2 Grading Method: Regular

EE capstone design course. Exploring the signal processing and communication systems theoretical concepts presented in ENEE 420 Communication Systems and ENEE 425 Digital Signal Processing by implementing them on actual DSP based hardware in real time.

Prerequisite: ENEE324; Corequisite: ENEE425 or ENEE420. This course explores the signal processing and communication system theoretical concepts presented in ENEE 322 Signals and Systems, ENEE 324 Engineering Probability, ENEE 420 Communication Systems, and ENEE 425 Digital Signal Processing by implementing them on actual hardware in real time. In the process, students gain experience using equipment commonly used in industry, such as, oscilloscopes, spectrum analyzers, error rate test sets, channel simulators, digital signal processors, analog-to-digital and digital-to-analog converters, and signal generators. The experiments are based on using a Texas Instruments TMS320C6713 DSP Starter Kit (DSK) stand-alone board that communicates with the PC through a USB port.

0101	Steven Tretter	Seats (Total: 8)	
	W 10:00am - 10:50am	AVW 1362	
	F 9:00am - 12:00pm	AVW 1362	Lab
0102	Steven Tretter	Seats (Total: 8)	
	W 10:00am - 10:50am	AVW 1362	
	W 2:00pm - 5:00pm	AVW 1362	Lab

ENEE440 **Microprocessors**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: ENEE350; and completion of all lower division technical courses in the EE curriculum. Restriction: Must be in one of the following programs (Engineering: Computer; Engineering: Electrical).

Microprocessor architectures, instruction sets, and applications. Bus structures, memory, I/O interfacing. Assembly language programming, LSI device configuration, and the embedding of microprocessors in systems.

ENEE majors only (09090).

0101	William Hawkins	Seats (Total: 35)
	TuTh 11:00am - 12:15pm	EGR 3106

ENEE445 **Computer Laboratory**

(Perm req)

Credits: 2 Grading Method: Regular

Prerequisite: Minimum grade of C- in ENEE205; or minimum grade of C- in ENEE206. And minimum grade of C- in ENEE350; and must have earned a minimum grade of regular (letter) C- in all 200-level ENEE courses; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in one of the following programs (Engineering: Computer; Engineering: Electrical).

This laboratory course focuses on the hardware/software interface in computer systems. Hand-on experiments are used to teach design, construction, analysis, and measurement of both hardware and software for embedded systems. Projects emphasize using microcontrollers for control, sensing, and communication through various I/O devices.

0101	William Hawkins	Seats (Total: 12)	
	Tu 12:30pm - 1:20pm	EGR 3114	
	Th 2:00pm - 5:00pm	AVW 1454	Lab

ENEE446 **Digital Computer Design**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: ENEE350; and completion of all lower-division technical courses in the EE curriculum. Restriction: Permission of ENGR-Electrical & Computer Engineering department. Credit only granted for: ENEE446 or CMSC411.

Hardware design of digital computers. Arithmetic and logic units, adders, multipliers and dividers. Floating-point arithmetic units. Bus and register structures. Control units, both hardwired and microprogrammed. Index registers, stacks, and other addressing schemes. Interrupts, DMA and interfacing.

ENEE majors (09090) only.

0101	Donald Yeung	Seats (Total: 60)
	MW 2:00pm - 3:15pm	EGR 0108

ENEE457 **Computer Systems Security**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in ENEE350; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in one of the following programs (Engineering: Electrical; Engineering: Computer) ; and permission of ENGR-Electrical & Computer Engineering department. Credit only granted for: CMSC414, ENEE459C or ENEE457. Formerly: ENEE459C.

Theoretical and practical aspects of computer systems security. Topics covered include symmetric/asymmetric encryption, message authentication, digital signatures, access control, as well as network security, web security and cloud security. Students acquire tools necessary for designing secure computer systems and programs and for defending against malicious threats (e.g., viruses, worms, denial of service).

0101	Charalampos Papamanthou	Seats (Total: 60)	
	MW 11:00am - 12:15pm	CHM 0115	

ENEE459A **Topics in Computer Engineering; CAD Tools**

(Perm req)

Credits: 1 Grading Method: Regular

Selected topics of current importance in computer engineering.

Prerequisite: ENEE245 Verilog or VDHL hardware description languages (HDLs) and graphical printed ciruit design CAD packages are used to create a digital system implemented on a printed circuit-board. A practical design for hardware incorporating a processor and interface devices is to be created by the student. Simulation is used to explore practical issues of system performance and device resource constraints, and a printed-circuit board proof-of-concept will be produced by the student.

0101	William Hawkins	Seats (Total: 12)	
	Tu 9:30am - 10:20am	EGR 3114	
	Contact instructor or department for details.		

ENEE459B **Topics in Computer Engineering; Reverse Engineering and Hardware Security Laboratory**

(Perm req)

Credits: 3 Grading Method: Regular

Selected topics of current importance in computer engineering.

Prequisite: ENEE244, ENEE245, and ENEEE350 or permission of the instructor.

0101	Gang Qu	Seats (Total: 24)	
	Tu 5:00pm - 6:15pm	KEB 1110	
	Th 5:00pm - 7:00pm	AVW 2446	Lab

0102	Gang Qu	Seats (Total: 24)	
	Tu 5:00pm - 6:15pm W 5:00pm - 7:00pm	KEB 1110 AVW 2446	Lab

ENEE459I **Topics in Computer Engineering; Introduction to Cyber-Physical Systems**

(Perm req)

Credits: 3 Grading Method: Regular

Selected topics of current importance in computer engineering.

Prerequisite: ENEE350, ENEE322. Also offered as ENEE759I. Credit granted for ENEE459I or ENEE759I. Modeling, design, and verification of cyber-physical systems. Students will learn how to design embedded software algorithms that interact with physical processes to satisfy desired specifications. Topics covered include models of computation, specifications, temporal logic, reachability analysis, model checking, and execution time analysis. The course is accompanied by a set of labs and semester-long projects to give hands-on experience on the covered material.

0101	Yasser Shoukry	Seats (Total: 20)	
	TuTh 2:00pm - 3:15pm Contact instructor or department for details.	ATL 2316	

ENEE460 **Control Systems**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: ENEE322; and completion of all lower-division technical courses in the EE curriculum. Restriction: Must be in Engineering: Electrical program.

Mathematical models for control system components. Transform and time domain methods for linear control systems. Introductory stability theory. Root locus, bode diagrams and Nyquist plots. Design specifications in the time and frequency domains. Compensation design in the time and frequency domain. Introduction to sampled data systems.

ENEE majors (09090) only.

0101	Steven Marcus	Seats (Total: 30)	
	TuTh 11:00am - 12:15pm F 9:00am - 9:50am	ITV 1111 CSI 2118	Discussion

ENEE474 **Power Systems**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: ENEE322; and completion of all lower-division technical courses in the EE curriculum.

Interconnected power systems, transmission lines, load flow studies, unit commitment and economic dispatch. Three phase networks, machine models. Symmetrical components, fault analysis and unbalanced operation. Power system transients, stability and numerical methods in power system analysis.

0101	Isaak Mayergoyz	Seats (Total: 75)
	TuTh 2:00pm - 3:15pm	KEB 1110

ENEE476 **Renewable Energy**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in ENEE303; and completion of all lower-divisions ENEE courses with a C- or better. Restriction: Permission of ENGR-Electrical & Computer Engineering department; and must be in one of the following programs (Engineering: Electrical; Engineering: Computer). Credit only granted for: ENEE419R or ENEE476. Formerly: ENEE419R.

Solar Energy Conversion Systems: History of Photovoltaic (PV) Systems, PV Cell, Module and Array Models and Equivalent Circuits, Characteristic Resistance, Fill Factor, Effects of Parasitic Resistances, Mismatch Effects, Shading, Bypass Diodes, Sun Tracking Systems, Maximum Power Point Tracking (MPPT) Techniques, Isolated and Non-isolated Switch-mode DC/DC for PV Systems, Inverter Design and Control, Sizing the PV Panel and Battery Pack in PV Applications. Wind Energy Conversion Systems: Introduction to Wind Energy Harvesting, Horizontal and Vertical Wind Systems, Fundamentals of Wind Energy Harvesting Systems, Variable Speed and Fixed Speed Wind Energy Conversion Systems (WECS), Wind Turbines and Different Electrical Machines in Wind Applications, Induction Machine and Dynamic Model of Induction Machines, Synchronous Generators and Dynamic Model of SG, Control of Wind Energy Conversion Systems.

0101	Alireza Khaligh	Seats (Total: 64)
	MW 3:30pm - 4:45pm	EGR 1108

ENEE486 **Optoelectronics Lab**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ENEE205; or minimum grade of C- in ENEE206. And minimum grade of C- in PHYS271 and PHYS270; and must have earned a minimum grade of regular (letter) C- in all required 200-level ENEE courses; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in one of the following programs (Engineering: Computer; Engineering: Electrical).

Hands-on experience in performing measurements in optics and electro-optics. Basics of optics, light detectors, Fourier optics, gratings and spectrometers, pulsed dye lasers, fiber optics, electro-optics, and acousto-optics.

0101	Mario Dagenais	Seats (Total: 12)	
	W 10:00am - 10:50am	AJC 2134	
	W 2:00pm - 5:00pm	AVW 1366	Lab

ENEE488 **Independent Study in Electrical and Computer Engineering**

(Perm req)

Credits: 1-3 Grading Method: Regular

The purpose is to provide students with an opportunity for independent study projects on advanced electrical and computer engineering topics. These projects typically involve academic investigations of technical themes that are not addressed in the established elective and special topics courses taught by the department on a regular basis. Study plans are tailored to students educational goals but are approved and supervised by faculty.

Prerequisite: permission of department.

Contact department for information to register for this course.

ENEE489N **Topics in Electrophysics; Antenna Design**

(Perm req)

Credits: 3 Grading Method: Regular

Selected topics of current importance in electrophysics.

Prerequisites: ENEE381. Restriction: Permission of Electrical & Computer Engineering Department. A senior level hands-on course to expose students to the principles of antenna design and methods for generation and reception of GHz signals. The course includes theory and computer modeling, as well as fabrication and testing of small scale antennas used in naval communication systems. The course builds upon the concepts of electromagnetic wave introduced in ENEE381. Students will learn the state of the art in microwave instrumentation and techniques, along with simulation tools based on geometry. Students will analyze and test several prototype antenna configurations.

Contact department for information to register for this course.

ENEE490 **Physical Principles of Wireless Communications**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: ENEE381. Restriction: Must be in one of the following programs (Engineering: Computer; Engineering: Electrical). Credit only granted for: ENEE490 or ENEE498B. Formerly: ENEE498B.

0101	Wesley Lawson	Seats (Total: 25)
	TuTh 2:00pm - 3:15pm	AJC 2119

ENEE498M **Topics in Electrical Engineering; Mathematical Methods in Electrical Engineering**

(Perm req)

Credits: 3 Grading Method: Regular

Selected topics of current importance in electrical engineering.

Prerequisite: Completion of MATH241 and MATH246 wit a "C-" or better; completion of all 200-level ENEE courses. A fundamental understanding of applied mathematical techniques for electrical engineering applications will be provided. It is designed to expose electrical and computer engineering students to various problem-solving techniques and to enable them to apply the appropriate techniques to a wide assortment of electrical engineering problems. Computational methods using MATLAB will be introduced.

Contact department for information to register for this course.

ENEE499 **Senior Projects in Electrical and Computer Engineering**

(Perm req)

Credits: 1-5 Grading Method: Regular

The purpose is to provide students with an opportunity to engage in independent research projects on advanced electrical and computer engineering topics. Projects are selected by students and supervised by faculty and other qualified mentors. While students may be required to acquire new skills or information in the course of completing a 499 project, the focus is to conduct an independent investigation of a technical theme by the student. The project may be used to satisfy the advanced lab requirement if it is approved as a primarily - experimental research project. In that case, the student will enroll in ENEE499L.

ENEE majors (09090) only.

Contact department for information to register for this course.

ENEE499L **Senior Projects in Electrical and Computer Engineering**

(Perm req)

Credits: 1-3 Grading Method: Regular

The purpose is to provide students with an opportunity to engage in independent research projects on advanced electrical and computer engineering topics. Projects are selected by students and supervised by faculty and other qualified mentors. While students may be required to acquire new skills or information in the course of completing a 499 project, the focus is to conduct an independent investigation of a technical theme by the student. The project may be used to satisfy the advanced lab requirement if it is approved as a primarily - experimental research project. In that case, the student will enroll in ENEE499L.

Contact department for information to register for this course.

ENEE499R **Senior Projects in Electrical and Computer Engineering**

(Perm req)

Credits: 1-3 Grading Method: Regular

The purpose is to provide students with an opportunity to engage in independent research projects on advanced electrical and computer engineering topics. Projects are selected by students and supervised by faculty and other qualified mentors. While students may be required to acquire new skills or information in the course of completing a 499 project, the focus is to conduct an independent investigation of a technical theme by the student. The project may be used to satisfy the advanced lab requirement if it is approved as a primarily - experimental research project. In that case, the student will enroll in ENEE499L.

Contact department for information to register for this course.

ENEE600 **Solid State Electronics**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENEE413; and must have background in elementary quantum mechanics. Credit only granted for: ENEE600 or ENEE793. Formerly: ENEE793.

Properties of crystals; energy bands: electron transport theory; conductivity and hall effect; statistical distributions; fermi level: impurities; non-equilibrium carrier distributions; normal modes of lattice vibration and thermal properties of crystals; tunneling phenomena; surface properties.

0101	Agisilaos Iliadis	Seats (Total: 25)
	MW 2:00pm - 3:15pm	AJC 2134

ENEE605 **Design and Fabrication of Micro-Electro-Mechanical Systems (MEMS)**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: ENEE605 or ENEE719R. Formerly: ENEE719R.

The goals are to explore the world of Micro-Electro-Mechanical Systems (MEMS) by understanding its design and fabrication aspects.

0101	Reza Ghodssi	Seats (Total: 30)
	TuTh 11:00am - 12:15pm	JMP 1109

ENEE610 **Electrical Network Theory**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have completed undergraduate-level Circuit Theory; or permission of instructor.

Matrix algebra, network elements, ports, passivity and activity, geometrical and analytical descriptions of networks, state variable characterizations, scattering matrices, signal flow graphs, sensitivity.

0101	Robert Newcomb TuTh 3:30pm - 4:45pm	Seats (Total: 30) AJC 2119	

ENEE620 **Random Processes in Communication and Control**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENEE324; or students who have taken courses with comparable content may contact the department.

Introduction to random processes: characterization, classification, representation; Gaussian and other examples. Linear operations on random processes, stationary processes: covariance function and spectral density. Linear least square waveform estimating Wiener-Kolmogroff filtering, Kalman-Bucy recursive filtering: function space characterization, non-linear operations on random processes.

0101	Alexander Barg TuTh 12:30pm - 1:45pm F 11:00am - 11:50am	Seats (Total: 20) CSI 1122 CSI 2118	 Discussion
0102	Alexander Barg TuTh 12:30pm - 1:45pm F 11:00am - 11:50am	Seats (Total: 20) CSI 1122 CSI 1121	 Discussion

ENEE623 **Digital Communications**

Credits: 3 Grading Method: Regular, Audit

Recommended: ENEE420.

Review of sampling and quantization, functional characterization of digital signals and transmission facilities, band-limited signals and systems. Digital modulation/demodulation techniques, error probability, intersymbol interference and its effects, adaptive equalization. Signaling with coded waveforms, fading and satellite channels, multiple access problems and protocols. Introduction to spread-spectrum Communications.

0101	Sennur Ulukus MW 5:00pm - 6:15pm	Seats (Total: 30) EGR 3106	

ENEE630 **Advanced Digital Signal Processing**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENEE425. Corequisite: ENEE620. Credit only granted for: ENEE624 or ENEE630. Formerly: ENEE624.

This is the first-year graduate course in signal processing. The objective is to establish fundamental concepts of signal processing on multirate processing, parametric modeling, linear prediction theory, modern spectral estimation, and high-resolution techniques.

0101	Min Wu	Seats (Total: 40)	
	MW 3:30pm - 4:45pm	EGR 0108	
	Tu 5:00pm - 5:50pm	KEB 1200	Discussion

ENEE633 Statistical Pattern Recognition

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MATH461; or students who have taken courses with comparable content may contact the department; or permission of instructor. Corequisite: ENEE620; or permission of instructor. Credit only granted for: ENEE633 or ENEE739Q. Formerly: ENEE739Q.

The goal is to introduce mathematical pattern analysis and recognition. Emphasis is given to parametric and non-parametric statistical pattern recognition methods and clustering with applications to speech, image and video recognition.

0101	Behtash Babadi	Seats (Total: 65)
	TuTh 3:30pm - 4:45pm	EGR 1202

ENEE641 Mathematical Foundations for Computer Engineering

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: ENEE641 or ENEE759F. Formerly: ENEE759F.

Mathematical modeling, design, analysis and proof techniques related to computer engineering. Probability, logic, combinatorics, set theory, and graph theory, as they pertain to the design and performance of computer engineering systems. Techniques for the design and analysis of efficient computational methods from graph theory and networks. Understanding of the limits on the efficiency of such computational methods. Translation from mathematical theory to actual programming. The course emphasizes mathematical rigor.

0101	Uzi Vishkin	Seats (Total: 50)
	MW 12:30pm - 1:45pm	MCB 1207

ENEE646 Digital Computer Design

Credits: 3

Grading Method: Regular, Audit

Prerequisite: ENEE446; or students who have taken courses with comparable content may contact the department.

Concepts and techniques for design of computer systems with improved performance. Advanced I/O systems, memory organization, pipeland and parallel processors, bus bandwidth, processor/memory interconnections, cache memory, virtual memory, multiprocessors, performance evaluation.

0101	Yavuz Oruc	Seats (Total: 35)	
	TuTh 9:30am - 10:45am	PLS 1111	

ENEE648D **Advanced Topics in Electrical Engineering; Optoelectronics Lab**

Credits: 3

Grading Method: Regular, Audit

Every semester courses intended for high degree of specialization are offered by visiting or regular electrical engineering faculty members in two or more of the areas listed in 488. The student should check with the electrical engineering office of graduate studies for a list and the description of the topics offered currently.

Prerequisites: Permission of ENGR-Electrical & Computer Engineering department. Hands-on experience in performing measurements in optics and electro-optics. Basics of optics, light detectors, Fourier optics, gratings and spectrometers, pulsed dye lasers, fiber optics, electro-optics, and acousto-optics.

0101	Mario Dagenais	Seats (Total: 6)	
	W 10:00am - 10:50am	AJC 2134	
	W 2:00pm - 5:00pm	AVW 1366	Lab

ENEE660 **System Theory**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: ENEE460 and MATH463; or students who have taken courses with comparable content may contact the department.

General systems models. State variables and state space. Linearity and its implications. Controllability and observability. State space structure and representation. Realization theory and algorithmic solutions. Parameterizations of linear systems; canonical forms. Basic results from stability theory. Stabilizability. Fine structure of linear multivariable systems; minimal indices and polynomial matrices. Interplay between frequency domain and state space.

0101	Nuno Martins	Seats (Total: 30)
	MW 12:30pm - 1:45pm	CHE 2136

ENEE662 **Convex Optimization**

Credits: 3 Grading Method: Regular, Audit

Recommended: MATH410. Credit only granted for: ENEE759F or ENEE662.

Focuses on recognizing, solving, and analyzing convex optimization problems. Convex sets, convex functions, convex and quasi-convex optimization problems. Duality theory and optimality conditions. Specific classes of problems including linear optimization (LP), semi-definite optimization (SDP), geometric programming. Algorithms for unconstrained and constrained optimization; interior-point methods. Applications in controls, communications, signal processing, statistics, and other areas.

0101	Richard La	Seats (Total: 40)
	MW 2:00pm - 3:15pm	CHM 1224

ENEE680 **Electromagnetic Theory I**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENEE381; or students who have taken courses with comparable content may contact the department.

Theoretical analysis and engineering applications of Maxwell's equations. Boundary value problems of electrostatics and magnetostatics.

0101	Thomas Antonsen	Seats (Total: 25)
	MW 3:30pm - 4:45pm	CHE 2145

ENEE690 **Quantum and Wave Phenomena with Electrical Application**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENEE381; or students who have taken courses with comparable content may contact the department.

Introduction of quantum and wave phenomena from electrical engineering point of view. Topics included: general principles of quantum mechanics, operator algebra, the microwave resonant cavity and the analagous potential well problem, harmonic oscillator, hydrogenic atom. Perturbation method applied to the transmission line and potential well problems. Periodically loaded transmission line and Kronig-Penny model of band theory.

0101	Edo Waks	Seats (Total: 30)
	TuTh 12:30pm - 1:45pm	ITV 1111

ENEE698A **Graduate Seminar; Communications**

Credits: 1 Grading Method: Regular, Audit, Sat-Fail

Every semester regular seminars are held in electrical science and in the six areas of specialization offered by the electrical engineering department. They may be taken, by arrangement with the student's advisor, for repeated credit.

0101	Ramalingam Chellappa	Seats (Total: 20)
	M 3:30pm - 4:45pm	AVW 2120

ENEE698E **Graduate Seminar; Microelectronics**

Credits: 1-2 Grading Method: Regular, Audit, Sat-Fail

Every semester regular seminars are held in electrical science and in the six areas of specialization offered by the electrical engineering department. They may be taken, by arrangement with the student's advisor, for repeated credit.

0101	Robert Newcomb	Seats (Total: 20)
	Tu 5:00pm - 5:50pm	EGR 1110

ENEE698Q **Graduate Seminar; Colloquium Series**

Credits: 1 Grading Method: Regular

Every semester regular seminars are held in electrical science and in the six areas of specialization offered by the electrical engineering department. They may be taken, by arrangement with the student's advisor, for repeated credit.

0101	Joseph JaJa	Seats (Total: 80)
	F 3:30pm - 4:30pm	KEB 1110

ENEE699 **Independent Studies in Electrical Engineering**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Supervised individual study or project, or supervised group study or project, at an advanced level, in electrical engineering.

Contact department for information to register for this course.

ENEE704 **Physics and Simulation of Semiconductor Devices**

Credits: 3 Grading Method: Regular, Audit

Recommended: ENEE601 and ENEE600; and exposure to quantum mechanics. Credit only granted for: ENEE694 and ENEE704. Formerly: ENEE694.

The physics of electron transport in semiconductor devices will be covered. Numerical methods for attaining solutions to transport equations will be explored. Students will also learn how to use CAD tools fro semiconductor device design. Nano-electronic devices will be introduced.

0101	Neil Goldsman	Seats (Total: 30)
	MW 12:30pm - 1:45pm	EGR 2116

ENEE731 **Image Understanding**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENEE631 and ENEE633. Credit only granted for: ENEE739J or ENEE731. Formerly: ENEE739J.

An advanced graduate level course on image understanding. Mathematical and statistical approaches to solving image understanding problems will be discussed. Topics to be covered include: optimal edge and shape detection; image understanding using Markov random field models; Monte Carlo Markov Chain techniques for image understanding; shape from shading, stereo, texture and contour; structure from motion and object recognition. Existence, uniqueness and convergence issues for many of these problems will be discussed.

Also offered as CMSC828G. Credit only granted for CMSC828G or ENEE731.

0101	Ramalingam Chellappa	Seats (Total: 30)
	MW 11:00am - 12:15pm	EGR 1104

ENEE759I **Advanced Topics in Computer Engineering; Introduction to Cyber-Physical Systems**

Credits: 3 Grading Method: Regular, Audit

Topics, as announced every semester, from the field of computer engineering and its applications.

Prerequisite: ENEE350, ENEE322. Also offered as ENEE759I. Credit granted for ENEE459I or ENEE759I. Modeling, design, and verification of cyber-physical systems. Students will learn how to design embedded software algorithms that interact with physical processes to satisfy desired specifications. Topics covered include models of computation, specifications, temporal logic, reachability analysis, model checking, and execution time analysis. The course is accompanied by a set of labs and semester-long projects to give hands-on experience on the covered material.

0101	Yasser Shoukry	Seats (Total: 20)
	TuTh 2:00pm - 3:15pm Contact instructor or department for details.	ATL 2316

ENEE762 **Stochastic Control**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENEE620 and ENEE660; or students who have taken courses with comparable content may contact the department.

Stochastic control systems, numerical methods for the Ricatti equation, the separation principle, control of linear systems with Gaussian signals and quadratic cost, non-linear stochastic control, stochastic stability, introduction to stochastic games.

0101	Perinkulam Krishnaprasad	Seats (Total: 30)
	TuTh 5:00pm - 6:15pm	CSI 2107

ENEE769I **Advanced Topics in Controls; Formal Methods for Cyber-Physical Systems**

Credits: 3 Grading Method: Regular, Audit

Topics selected, as announced every semester, from the field of controls and its applications.

Prerequisites: ENEE460, ENEE469O, CMSC250, working knowledge of MATLAB, C++, or JAVA. Cyber-physical systems (CPS) are systems in which computational (cyber) processes interact closely with physical dynamical processes. The design and verification of such systems requires a good understanding of formal mathematical methods that are found in both computer science and the traditional engineering disciplines. These formal methods are used to model, verify, and design complex embedded systems in which the interaction of computational and physical processes must be approached in a holistic manner. This course introduces first/second year graduate students to the formal methods used in the verification and design of cyber-physical systems with applications drawn from several areas: robotics, manufacturing, healthcare, autonomous vehicles, smart grids, security and privacy, communication networks, social networks.

0101	John Baras	Seats (Total: 20)
	MW 5:00pm - 6:15pm	CSI 2118

ENEE791 **Quantum Electronics II**

Credits: 3 Grading Method: Regular, Audit

Nonlinear optical effects and devices, tunable coherent light sources: optical parametric oscillator; frequency conversion and dye laser. Ultrashort pulse generation and measurement, stimulated raman effect, and applications. Interaction of acoustic and optical waves, and holography.

0101	Thomas Murphy	Seats (Total: 30)
	TuTh 2:00pm - 3:15pm	PHY 4221

ENEE799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Sat-Fail

Contact department for information to register for this course.

ENEE889 **Teaching Workshop**

(Perm req)

Credits: 1 Grading Method: Sat-Fail

Provide training in education for senior PhD students who contemplate a academic career, and give them the opportunity to gain some teaching experience. Emphasis is on issues that are of special importance in electrical and computer engineering education.

Contact department for information to register for this course.

ENEE898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular, Sat-Fail

Provide training in education for senior PhD students who contemplate a academic career, and give them the opportunity to gain some teaching experience. Emphasis is on issues that are of special importance in electrical and computer engineering education.

Contact department for information to register for this course.

ENEE899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Sat-Fail

Contact department for information to register for this course.

ENES Engineering Science Fall 2018

ENES100 **Introduction to Engineering Design**

(Perm req) | Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: PS | General Education: DSSP

Corequisite: MATH140.

Students work as teams to design and build a product using computer software for word-processing, spreadsheet, CAD, and communication skills.

0101	Gregory Barr MW 8:00am - 9:50am Class time/details on ELMs Contact instructor or department for details.	Seats (Total: 42) JMP 1116 ONLINE
0102	Taylor Myers MW 8:00am - 9:50am Class time/details on ELMs Contact instructor or department for details.	Seats (Total: 40) JMP 1215 ONLINE
0301	Evandro Valente MW 10:00am - 11:50am Class time/details on ELMs Contact instructor or department for details.	Seats (Total: 42) JMP 1116 ONLINE
0302	Brian Phillips MW 10:00am - 11:50am Class time/details on ELMs Contact instructor or department for details.	Seats (Total: 40) JMP 1215 ONLINE
0401	John Cumings TuTh 10:00am - 11:50am Class time/details on ELMs Contact instructor or department for details.	Seats (Total: 42) JMP 1116 ONLINE
0402	David Lovell TuTh 10:00am - 11:50am Class time/details on ELMs Contact instructor or department for details.	Seats (Total: 40) JMP 1215 ONLINE
0501	Evandro Valente MW 12:00pm - 1:50pm Class time/details on ELMs Contact instructor or department for details.	Seats (Total: 42) JMP 1116 ONLINE

0502	W Ethan Eagle MW 12:00pm - 1:50pm Class time/details on ELMs Contact instructor or department for details.	Seats (Total: 40) JMP 1215 ONLINE
0601	Peter Sunderland TuTh 12:00pm - 1:50pm Class time/details on ELMs Contact instructor or department for details.	Seats (Total: 42) JMP 1116 ONLINE
0602	Jackelyn Lopez Roshwalb TuTh 12:00pm - 1:50pm Class time/details on ELMs Contact instructor or department for details.	Seats (Total: 40) JMP 1215 ONLINE
0701	Evandro Valente MW 2:00pm - 3:50pm Class time/details on ELMs Contact instructor or department for details.	Seats (Total: 42) JMP 1116 ONLINE
0702	Ayush Gupta MW 2:00pm - 3:50pm Class time/details on ELMs Contact instructor or department for details.	Seats (Total: 40) JMP 1215 ONLINE
0801	W Ethan Eagle TuTh 2:00pm - 3:50pm Class time/details on ELMs Contact instructor or department for details.	Seats (Total: 42) JMP 1116 ONLINE
1001	Nick Wagman TuTh 5:00pm - 6:50pm Class time/details on ELMs Contact instructor or department for details.	Seats (Total: 42) JMP 1116 ONLINE

ENES102 **Mechanics I**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Corequisite: MATH140. Restriction: Must be in a major in ENGR-A. James Clark School of Engineering. Formerly: ENES110.

The equilibrium of stationary bodies under the influence of various kinds of forces. Forces, moments, couples, equilibrium, trusses, frames and machines, centroids, moment of inertia, beams, friction, stress/strain, material properties. Vector and scalar methods are used to solve problems.

0101	Thomas Beigel MW 9:00am - 9:50am F 9:00am - 10:50am	Seats (Total: 60) EGR 1108 EGR 1108	 Discussion
0104	Jarred Young MW 2:00pm - 2:50pm F 2:00pm - 3:50pm	Seats (Total: 60) CHM 0115 KEB 1200	 Discussion
0107	Aris Cleanthous Tu 10:00am - 11:50am Th 10:00am - 11:50am	Seats (Total: 60) HJP 2242 HJP 2242	 Discussion
0108	Aris Cleanthous Tu 1:00pm - 2:50pm Th 1:00pm - 2:50pm	Seats (Total: 60) TYD 0117 TYD 0117	 Discussion
0109	Michael Galczynski MW 9:00am - 9:50am F 9:00am - 10:50am	Seats (Total: 60) CHE 2108 ESJ 1202	 Discussion

ENES102H **Mechanics I**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Corequisite: MATH140. Restriction: Must be in a major in ENGR-A. James Clark School of Engineering. Formerly: ENES110.

The equilibrium of stationary bodies under the influence of various kinds of forces. Forces, moments, couples, equilibrium, trusses, frames and machines, centroids, moment of inertia, beams, friction, stress/strain, material properties. Vector and scalar methods are used to solve problems.

0101	Gary Pertmer MW 9:00am - 9:50am F 9:00am - 10:50am	Seats (Total: 55) PHY 1204 ESJ 1215	 Discussion
0201	Gary Pertmer MW 12:00pm - 12:50pm F 12:00pm - 1:50pm	Seats (Total: 55) CSI 3117 KEB 1110	 Discussion

0301	Michael Galczynski	Seats (Total: 55)	
	MW 2:00pm - 2:50pm F 2:00pm - 3:50pm	SYM 0200 EGR 0108	Discussion

ENES113 **Virtus Living and Learning Community Seminar I**

Credits: 1 Grading Method: Regular

Restriction: Must be in first year Virtus program.

The seminar focuses on personal and professional development related to the field of engineering with a strong emphasis on clarifying career goals and decisions. Additional topics include an introduction to basic tools, undergraduate research opportunities, and campus and engineering resources.

0101	Dale Martin, Nick Wagman	Seats (Total: 65)
	W 4:00pm - 5:30pm	MCB 1207

ENES115 **FLEXUS Living and Learning Community Seminar I**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be a first year FLEXUS Participant.

The seminar focuses on personal and professional development related to the field of engineering with a strong emphasis on clarifying career goals and decisions. Additional topics include an introduction to campus and engineering resources, basic tools, and undergraduate research opportunities. Students will discuss issues of concern through a variety of book readings, self-reflections, and panel discussions with practicing women engineers.

0101	Julia Anderson, Laura Paquin	Seats (Total: 65)
	W 4:00pm - 5:30pm	KEB 1200

ENES140 **Discovering New Ventures**

Credits: 3 Grading Method: Regular General Education: DSSP

Additional information: This course may count as an elective for a student at the University of Maryland, depending on the student's specific degree program. It cannot be counted towards the requirements for the Smith School of Business Entrepreneurship Fellow Program.

Students explore dynamic company startup topics by working in teams to design a new venture. This multi-disciplinary course helps students to learn the basic business, strategy, and leadership skills needed to launch new ventures. Topics include learning how to assess the feasibility of a startup venture, as well as how to apply best practices for planning, launching, and managing new companies. Students discuss a wide range of issues of importance and concern to entrepreneurs and learn to recognize opportunities, assess the skills and talents of successful entrepreneurs, and learn models that help them navigate uncertainty.

0101	James Green Class time/details on ELMs	Seats (Total: 250) ONLINE
0201	James Green Class time/details on ELMs	Seats (Total: 250) ONLINE
0301	James Green Class time/details on ELMs	Seats (Total: 250) ONLINE
0401	James Green Class time/details on ELMs	Seats (Total: 250) ONLINE
0501	James Green Class time/details on ELMs	Seats (Total: 250) ONLINE
0601	James Green Class time/details on ELMs	Seats (Total: 250) ONLINE
0701	James Green Class time/details on ELMs	Seats (Total: 250) ONLINE
0801	James Green Class time/details on ELMs	Seats (Total: 250) ONLINE
FC01	Michael Pratt MW 3:00pm - 4:15pm	Seats (Total: 150) ESJ 2208

ENES181 **Engineering & The Grand Challenges**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in a major in ENGR-A. James Clark School of Engineering; and must be a new freshman or transfer student.

Introduction to the various fields of engineering and the necessary context for students to fully engage in selected National Academy of Engineering's Grand Challenges such as economical solar energy, carbon sequestration, access to clean water, engineering better medicines, restoring urban infrastructure and personalized learning. The lectures and activities will provide an introduction to the engineering disciplines, NAE Grand Challenges, STEM cultures, and research.

0101	Darryll Pines	Seats (Total: 100)
	W 4:00pm - 4:50pm	KEB 1110

ENES190H **Introduction to Design and Quality**

Credits: 4 Grading Method: Regular General Education: DSSP

Prerequisite: Must be in the Quest program. Also offered as: BMGT190. Credit only granted for: BMGT190 or ENES190.

Expose engineering and business students to the principles of total quality, using experiential team learning and technology aided approaches. The first of four courses in total quality.

First course in a sequence of four Total Quality Program Courses. Restricted to QUEST Honors Program students. Also offered as ENES190H.

A Fearless Ideas Course from the Academy for Innovation & Entrepreneurship (AIE): http://ter.ps/iamFEARLESS Click here for more information on the Fearless Ideas Courses.

0101	Pamela Armstrong	Seats (Total: 45)	
	TuTh 12:30pm - 1:45pm	ESJ 2212	
	Tu 6:00pm - 7:50pm	VMH 1412	Discussion

ENES210 **Entrepreneurial Opportunity Analysis and Decision-Making in 21st Century Technology Ventures**

Credits: 3 Grading Method: Regular CORE: IE General Education: DSSP, SCIS

Credit only granted for: ENES210 or ENES461.

This multi-disciplinary course helps students learn the principles of entrepreneurial opportunity analysis and decision-making in an increasingly dynamic and technically-inclined society. Emphasis is placed on how aspiring technology entrepreneurs can develop their entrepreneurial perspectives to develop winning entrepreneurial plans for their future ventures.

0101	James Green	Seats (Total: 120)
	Class time/details on ELMs	ONLINE
	M 9:00am - 9:50am	ESJ 2204

0201	James Green Class time/details on ELMs M 10:00am - 10:50am	Seats (Total: 120) ONLINE ESJ 1202
0301	James Green Class time/details on ELMs Tu 2:00pm - 2:50pm	Seats (Total: 120) ONLINE ESJ 2204
0401	James Green Class time/details on ELMs Th 2:00pm - 2:50pm	Seats (Total: 120) ONLINE ESJ 2204
0501	James Green Class time/details on ELMs W 9:00am - 9:50am	Seats (Total: 120) ONLINE ESJ 2204
0601	James Green Class time/details on ELMs W 10:00am - 10:50am	Seats (Total: 120) ONLINE ESJ 1202
0701	James Green Class time/details on ELMs M 1:00pm - 1:50pm	Seats (Total: 110) ONLINE TWS 0320
0801	James Green Class time/details on ELMs W 1:00pm - 1:50pm	Seats (Total: 110) ONLINE TWS 0320

ENES213 **Virtus Living and Learning Community Seminar III**

(Perm req)

Credits: 1 Grading Method: Regular

Prerequisite: ENES113. Restriction: Must be a participant in the second year of the Virtus program.

The seminar focuses on personal, academic and professional success by cultivating leadership skills, developing academic and technical ability and encouraging self awareness, identifying and employing strategies for academic and professional success, further enhancing career development through networking and mentoring and developing awareness of diversity issues.

0101	Elizabeth Kurban, Kurubel Belay Th 4:00pm - 5:15pm	Seats (Total: 45) PHY 1402

0201	Elizabeth Kurban, Kurubel Belay Contact instructor or department for details.	Seats (Total: 20)	

ENES215 **FLEXUS Living and Learning Community Seminar III**

(Perm req)

Credits: 1 Grading Method: Regular

Prerequisite: ENES115 and ENES116. Restriction: Must be a second year FLEXUS participant.

The seminar focuses on personal, academic and professional success by cultivating leadership skills, developing self-confidence and self-efficacy in academic and technical ability and encouraging self awareness, identifying and employing strategies for academic and professional success, further enhancing career development through networking, mentoring and role modeling, and developing awareness of diversity issues, specifically gender diversity.

0101	Mary Bowden, Julia Anderson Th 4:00pm - 5:15pm	Seats (Total: 49) BPS 1236	
0102	Julia Anderson, Mary Bowden Contact instructor or department for details.	Seats (Total: 30)	

ENES220 **Mechanics II**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Minimum grade of C- in ENES102; and (MATH141 and PHYS161). Restriction: Must be in a major in ENGR-A. James Clark School of Engineering; and must not be in Engineering: Electrical program.

Stress and deformation of solids-rods, beams, shafts, columns, tanks, and other structural, machine and vehicle members. Topics include stress transformation using Mohr's circle; shear and moment diagrams; derivation of elastic curves; and Euler's buckling formula. Design problems related to this material are given in lab.

Prerequisite: student in the College of Engineering.

0101	Peter Chang MW 9:00am - 9:50am F 9:00am - 10:50am	Seats (Total: 50) KEB 1200 CSI 1121	 Discussion
0201	Mary Bowden MW 12:00pm - 12:50pm F 12:00pm - 1:50pm	Seats (Total: 50) SPH 1302 CHE 2110	 Discussion

0301	Bongtae Han MW 10:00am - 10:50am F 10:00am - 11:50am	Seats (Total: 50) EGR 0108 EGR 0108	 Discussion
0401	Thomas Beigel MW 2:00pm - 2:50pm F 2:00pm - 3:50pm	Seats (Total: 50) EGR 1108 EGR 1108	 Discussion
0501	Robert Bonenberger MW 1:00pm - 1:50pm F 1:00pm - 2:50pm	Seats (Total: 50) KEB 1200 MCB 1207	 Discussion
0601	Thomas Beigel MW 11:00am - 11:50am F 11:00am - 12:50pm	Seats (Total: 50) EGR 1108 EGR 1108	 Discussion
0701	Robert Bonenberger MW 10:00am - 10:50am F 10:00am - 11:50am	Seats (Total: 50) SPH 1301 CSI 1115	 Discussion

ENES221 **Dynamics**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ENES102; and (MATH141 and PHYS161). Restriction: Must be in a major in ENGR-A. James Clark School of Engineering.

Systems of heavy particles and rigid bodies at rest and in motion. Force-acceleration, work-energy and impulse-momentum relationships. Motion of one body relative to another in a plane and in space.

0101	Patrick McAvoy MW 10:00am - 10:50am F 10:00am - 11:50am	Seats (Total: 58) ANS 0408 KEB 1110	 Discussion
0103	Patrick McAvoy MW 1:00pm - 1:50pm F 1:00pm - 2:50pm	Seats (Total: 54) PHY 1204 ANS 0408	 Discussion
0104	Peter Sandborn MW 12:00pm - 12:50pm F 12:00pm - 1:50pm	Seats (Total: 50) BPS 1236 CSI 1121	 Discussion

0105	Patrick McAvoy Tu 3:00pm - 4:50pm Th 3:00pm - 4:50pm	Seats (Total: 30) MTH 0304 EGR 1104	 Discussion

ENES232 **Thermodynamics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS261 and PHYS260. Restriction: Must be in a major in ENGR-A. James Clark School of Engineering. Credit only granted for: BIOE232, CHBE301, ENCH300, ENES232, ENME320, or ENME232. Formerly: ENME232 and ENME320.

Introduction to thermodynamics. Thermodynamic properties of matter. First and second laws of thermodynamics, cycles, reactions, and mixtures.

0101	Catherine Hamel MW 9:00am - 9:50am F 9:00am - 10:50am	Seats (Total: 50) ESJ 0215 ESJ 0215	 Discussion
0301	Catherine Hamel MW 1:00pm - 1:50pm F 1:00pm - 2:50pm	Seats (Total: 50) ESJ 1215 ESJ 1202	 Discussion
0401	Kevin Calabro Tu 2:00pm - 3:50pm Th 2:00pm - 3:50pm	Seats (Total: 30) ESJ 2309 PHY 0405	 Discussion

ENES304 **RISE Seminar**

(Perm req)

Credits: 1 Grading Method: Regular

Restriction: Must be in the Engineering RISE Leadership Program; and permission of ENGR-A. James Clark School of Engineering.

This is the first semester of a two semester sequence taken by RISE students in their first semester in the program. T he purpose of ENES 304 is for RISE students to learn about leadership, acquire leadership skills, and understand how to integrate leadership theories and concepts in engineering practice. There will be a mix of formal lectures by course faculty and lectures by distinguished speakers who can provide their own experience of what leadership means and how it is acquired. Students will explore their own leadership philosophy and leadership capacities in the context of group practice. Students will make meaning of general leadership theories and concepts and understand how to apply them to engineering industry. Students will also gain understanding of leadership through the stories shared by distinguished speakers with industrial, governmental and academic experience.

0101	Bruk Berhane, Ramsey Jabaji, Jane Fines	Seats (Total: 52)
	Tu 5:00pm - 5:50pm	JMP 3201

ENES390H **Systems Thinking for Managerial Decision Making**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENES190 or BMGT190. Restriction: Must be in the QUEST program. Also offered as: BMGT390. Credit only granted for: BMGT390, BMGT498X, ENES390, or ENES498X.

An introduction to the theory, concepts, tools, and practices of system thinking to enhance managerial decision making. Offers a blend of theory, real-life examples, and proven methods to initiate and sustain an organization-wide reorientation towards systems thinking.

Restricted to QUEST Honors Program students. Also offered as BMGT390H.

0101	Joseph Bailey	Seats (Total: 45)
	MW 2:00pm - 3:15pm	ESJ 1202

ENES397 **Mentoring Design and Quality Teams**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Restricted to QUEST Program (TQMP) students. Also offered as: BMGT397. Credit only granted for: BMGT397, ENES397, or BMGT398D. Formerly: BMGT398D.

Practice essential skills for leading and coaching multidisciplinary teams. These include effective communications, facilitation, conflict resolution, and the ability to motivate. Students will practice these skills as mentors for student teams from BMGT/ENES 190H. In the process, they will strengthen their knowledge of design and quality techniques.

0101	Pamela Armstrong	Seats (Total: 16)
	Tu 5:00pm - 7:40pm	VMH 1415

ENES424 **Engineering Leadership Capstone**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENES472, ENCE320, and ENES317; and permission of ENGR-A. James Clark School of Engineering. Recommended: ENES100.

The work initiated in the Introduction to Engineering Leadership course brings together further exploration of leadership styles and concepts.

Restricted to students with a minor in Engineering Leadership Developmen t.

0101	Natasha Chapman	Seats (Total: 30)
	Tu 5:00pm - 7:45pm	EGR 3106

ENES440 **Science, Technology and Society: Certificate Program Capstone**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in the Science, Technology and Society certificate program; or permission of ENGR-A. James Clark School of Engineering. Credit only granted for: ENES440 or UNIV401. Formerly: UNIV401.

Capstone research seminar for students in the Science, Technology and Society certificate program.

0101	David Tomblin	Seats (Total: 10)
	Contact instructor or department for details.	

ENES460 **Fundamentals of Technology Start-Up Ventures**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of ENGR-Maryland Technology Enterprise Institute. Credit only granted for: ENES460, BMGT461 or HLMN470. Additional information: Course may not be used to fulfill any BMGT major or minor program requirement.

Fundamental aspects of creating, organizing, funding, managing, and growing a technology startup venture. This multidisciplinary course will draw on management, business, legal, financial, as well as technical, concepts. Students form teams and develop a business plan for a technology company, based on each team's own business idea and then present the plan to a panel of outside experts.

0101	Michael Pratt	Seats (Total: 90)
	TuTh 5:00pm - 6:15pm	SCC 2121
	Restricted to students in the Hinman CEOs Program	

ENES461 **Advanced Entrepreneurial Opportunity Analysis in Technology Ventures**

Credits: 3 Grading Method: Regular

Credit only granted for: ENES210 or ENES461.

Explores the factors that influence entrepreneurial opportunity analysis in technology-based ventures. Uses a cognitive theoretical framework to examine the integration of motivation, emotions and information processing modes to make complex entrepreneurial decisions in technology venture environments.

0101	James Green Class time/details on ELMs	Seats (Total: 250) ONLINE
0201	James Green Class time/details on ELMs	Seats (Total: 250) ONLINE
0301	James Green Class time/details on ELMs	Seats (Total: 250) ONLINE

ENES463 **Strategies for Managing Innovation**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of ENGR-Maryland Technology Enterprise Institute. Credit only granted for: ENES463, BMGT467 or HLMN472. Additional information: Course may not be used to fulfill any BMGT major or minor program requirement.

Emphasizes how the technology entrepreneur can use strategic management of innovation and technology to enhance firm performance. Examines the process of technological change, the ways that firms come up with innovations, the strategies that firms use to benefit from innovation, and the process of formulating technology strategy. Provides frameworks for analyzing key aspects of these industries and teaches students how to apply these frameworks.

0101	Thomas Mierzwa Class time/details on ELMs *Restricted to students in the Minor in Technology Entrepreneurship*	Seats (Total: 30) ONLINE

ENES467 **Engineering for Social Change**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Restriction: Must not be in Engineering: Mechanical program; and junior standing or higher; and must be in a major in ENGR-A. James Clark School of Engineering. Also offered as: ENME467. Credit only granted for: ENES467 or ENME467.

Critical analysis of issues at the intersection of engineering, philanthropy and social change. How engineering design, products and processes have created social change in the past and will do so in the future through both intended and unintended consequences. Topics covered include energy, sustainability and climate change, autonomy, the digital future, low cost engineering, manufacturing, philanthropy, ethics and the impact of electronics on society, among others. Faculty and external experts will engage with students on these topics. Students will broadly engage with organizations involved in using technology for positive social impact.

0101	Davinder Anand	Seats (Total: 30)
	MW 11:00am - 12:15pm	ITV 1100

ENES471 **Legal Aspects of Entrepreneurship**

Credits: 3 Grading Method: Regular

Additional information: Course may not be used to fulfill any BMGT major or minor program requirement.

Explores critical legal and business issues entrepreneurs face as they build and launch a new venture. Examines real world scenarios, and addresses the legal issues at all of the important junctures along the path to success. Significant attention placed on new venture formation, intellectual property management, and financing arrangements.

0101	Wilson White	Seats (Total: 40)
	Class time/details on ELMs	ONLINE
	Restricted to students in the Minor in Technology Entrepreneurship or Hinman CEOs Program	

ENES472 **International Business Cultures in Engineering and Technology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DVCC

Prerequisite: Permission of ENGR-A. James Clark School of Engineering. Restriction: Sophomore standing or higher. Also offered as: SLLC472. Credit only granted for: ARHU439B, ARHU439E, ARHU439T, ENES472, SLLC471, SLLC472, or SLLC473. Formerly: ARHU439T.

The goal is to provide students with an understanding of cultural aspects pertaining to global business and engineering and develop the cultural understanding, attitudes, and communication skills needed to function appropriately within an increasingly global and multicultural working environment.

Restricted to students with the minor in international engineering (#EN01) and in engineering leadership development (#EN04). Students in global poverty (#AG06), in terrorism studies (#BS07), or in international development and conflict management (#BS02) may request permission for the course from Jane Fines (jfines@umd.edu). All other students can be placed on a hold file.

0101	Natasha Chapman Th 6:00pm - 7:45pm Class time/details on ELMs	Seats (Total: 45) KEB 1200 ONLINE

ENES480 **Engineering Honors Seminar I**

Credits: 1 Grading Method: Regular

Restriction: Must be in College of Engineering Honors; and junior standing or higher.

Introduction to engineering leadership, professionalism, and ethics. Discussions of leadership style, elements of success, professional communication, codes of ethics, handling of ethical dilemmas, and the characteristics of a professional.

0103	Richard McCuen Tu 8:00am - 9:15am	Seats (Total: 20) EGR 3114

ENES489A **Special Topics in Engineering; Applied Quantitative Analysis**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics in engineering.

Restricted to QUEST Honors Program students. Credit granted for BMGT438A or ENES489A.

0101	David Ashley, Joseph Bailey, Joshua Kohn M 5:00pm - 7:40pm	Seats (Total: 40) VMH 1415

ENES489P **Special Topics in Engineering; Hands-on Systems Engineering Projects**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics in engineering.

This hands-on design projects course will expose senior-level undergraduates and graduate students from all areas of engineering to exciting career opportunities in the systems engineering field. Students will be introduced to the technical aspects of systems engineering practice through team-based project development and a systematic step-by-step procedure for product development that includes defining operations concepts, requirements gathering and organization, synthesis of models of system behavior and system structure, functional allocation to create system design alternatives, formal assessment of design alternatives through tradeoff analysis, and established approaches to testing and validation/verification. The students will be introduced to modern methods in Model-Based Systems Engineering, and industrial strength tools and environments for complex systems synthesis. Team projects may address problems from a wide variety of disciplines or cross-disciplines.

0101	Raymond Adomaitis	Seats (Total: 40)	
	Tu 5:00pm - 6:15pm Th 3:30pm - 6:30pm	PHY 1402 AVW 1442	Lab

ENES490H **Quest Consulting and Innovation Practicum**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

Prerequisite: ENES390 or BMGT390. Also offered as: BMGT490. Credit only granted for: BMGT490 or ENES490.

Final course in the QUEST Honors Fellows Program three-course curriculum. Based on a team-based consulting project with one of QUEST's professional partners. A project advisor and professional champion supervise each student team. Requires extensive out-of-class work.

Fourth course in a sequence of four Total Quality Program Courses. Restricted to QUEST Honors Program students.

0101	David Ashley, Christina Elson	Seats (Total: 45)	
	W 5:00pm - 7:40pm Contact instructor or department for details.	VMH 1415	

ENES491 **Defining Consulting and Innovation Projects**

Credits: 3 | Grading Method: Regular, Audit

Prerequisite: BMGT190 or ENES190. Restriction: Restricted to QUEST Program (TQMP) students. Also offered as: BMGT491. Credit only granted for: BMGT491, ENES491 or BMGT438D. Formerly: BMGT438D.

Cultivate relationships with new and current corporate partners and prepare project scopes for QUEST's capstone course, BMGT/ENES 490H. Requires independent work communicating with clients and class visits to a variety of potential project sites.

Also offered as BMGT491.

0101	Jessica Roffe	Seats (Total: 9)	
	F 10:00am - 12:40pm	VMH 1407	

ENES602 **Future Faculty Program Seminar II**

(Perm req)

Credits: 1 | Grading Method: Regular, Audit

Restriction: Must be in the Clark School Future Faculty Program.

Effective teaching techniques. Basic principles of education and learning. Developing a course; promoting active learning, problem solving and critical thinking; designing exam and assignments; and communicating effectively with students.

This course is only open to students in the Clark School Future Faculty Program or by permission of Department.

0101	Kyu Yong Choi	Seats (Total: 25)
	M 2:00pm - 3:15pm	EGR 2154

ENES604 **Future Faculty Program Teaching Practicum**

(Perm req)

Credits: 1 Grading Method: Regular, Audit

Prerequisite: ENES602. Restriction: Must be a graduate student in the Clark School Future Faculty Program; and students for whom English is not the native language must pass the Maryland English Institute ITA Evaluation prior to enrolling in this course.

Graduate students will co-teach a course under supervision of a faculty mentor. Graudate students will be involved in all aspects of the course including development of syllabus, presenting lectures, writing and grading examiniations, and evaluating the students in the course.

0101	Ankur Srivastava	Seats (Total: 10)
	Contact instructor or department for details.	

ENES662 **Innovative Ideas and Concept Development**

Credits: 3 Grading Method: Regular

Enables aspiring entrepreneurs to understand the content, methods, and models for new venture opportunity assessment and analysis. Focuses on how to identify and analyze entrepreneurial opportunities for technology-based ventures by first understanding the personal self and decision-making factors. Explores how to evaluate new venture opportunities and challenges within industries and markets.

Must be in Techhology Entrepreneurship program. For permission to enroll enroll, must be admitted into a term-based calendar graduate program. Contact oes@umd.edu.

Click here for program information.

PLM1	James Green	Seats (Total: 60)
	Meets August 27, 2018 - November 16, 2018	
	Class time/details on ELMs	ONLINE

ENES663 **Strategies for Managing Innovation**

Credits: 3 Grading Method: Regular

Credit only granted for: ENES663 or ENPM691.

Emphasizes how innovative leaders can use strategic management of innovation and technology to enhance firm performance. It helps students to understand the process of technological change; the ways that firms come up with innovations; the strategies that firms use to benefit from innovation; and the process of formulating technology strategy. It provides frameworks for analyzing key aspects of these industries and teaches students how to apply these frameworks.

Must be in Techhology Entrepreneurship program. For permission to enroll, must be admitted into a term-based calendar graduate program. Contact oes@umd.edu.

Click here for program information.

PLM1	Thomas Mierzwa	Seats (Total: 60)
	Meets August 27, 2018 - November 16, 2018	
	Class time/details on ELMs	ONLINE

ENES666 **Creative Design, Prototyping, and Testing**

Credits: 3 Grading Method: Regular

Prerequisite: ENES664 and ENES665.

Transition from creative, innovative, design thinking methods to prototyping and concept testing of products and services. Learn how to translate ideas into marketable offerings to create real value for customers and the new venture. Emphasis is placed on an integrated and interdisciplinary approach to engineering design, concurrent engineering, design for manufacturing, industrial design, and the business of new product development. Topics include design methods, modeling and simulation, material and manufacturing process selection, platform and modular design, mass customization, planning and scheduling, and business issues, teamwork, group dynamics, creativity, and innovation.

Restricted to students in Techhology Entrepreneurship program.

Click here for program information.

PLM1	Cait von Schnetlage	Seats (Total: 50)
	Meets August 27, 2018 - November 16, 2018	
	Class time/details on ELMs	ONLINE

ENES667 **Market Development and Commercialization**

Credits: 3 Grading Method: Regular

Prerequisite: ENES664 and ENES665.

Provides an orientation to key marketing concepts critical to marketing technology-based products and services. Learn to identify market opportunities, understand customer preferences, evaluate market acceptance, and devise the appropriate going to market strategies for the new venture.

Restricted to students in Techhology Entrepreneurship program.

Click here for program information.

PLM1	Daniel Dearing **Meets August 27, 2018 - November 16, 2018** Class time/details on ELMs	Seats (Total: 50) ONLINE

ENES672 **Launching Technology Startup Ventures**

Credits: 6 Grading Method: Regular

Prerequisite: ENES670 and ENES671. Credit only granted for: ENES660 or ENES672.

Explores the processes and skills needed to launch and manage technology startup ventures. Learn how to apply best practices for planning, launching, and leading new companies. Discusses a wide range of issues of importance and concern to entrepreneurs, to include how to navigate uncertainty.

Restricted to students in Techhology Entrepreneurship program.

Click here for program information.

PLM1	Mark Komisky **Meets August 27, 2018 - November 16, 2018** Class time/details on ELMs	Seats (Total: 12) ONLINE
PLM2	John Jabara **Meets August 27, 2018 - November 16, 2018** Class time/details on ELMs	Seats (Total: 12) ONLINE

ENFP Engineering, Fire Protection Fall 2018

ENFP101 **Introduction to Fire Protection Engineering**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of ENGR-Fire Protection Engineering department. Credit only granted for: ENFP108 or ENFP101. Formerly: ENFP108.

This course will introduce students to the impact of fire on people, property and the environment and methods to mitigate the threat of fire. Student teams will apply the principles of fire behavior and fire safety systems covered in the first half of the course to design, build and test a fire safe, small-scale apartment. A final experiment will be conducted to provide an assessment of the complete designs of each team.

0101	James Milke	Seats (Total: 25)	
	M 12:00pm - 12:50pm	JMP 1109	

ENFP250 **Introduction to Life Safety Analysis**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of ENGR-Fire Protection Engineering department. Credit only granted for: ENFP250 or ENFP251. Formerly: ENFP251.

Introduction to fire protection engineering and building regulation, building safety systems, and egress system design. Evacuation modeling. Human behavior in fires. Tenability Analysis.

0101	Kenneth Isman	Seats (Total: 50)	
	TuTh 9:30am - 10:45am	ESJ 0215	
	Tu 4:00pm - 4:50pm	CSI 1122	Discussion

ENFP310 **Water Based Fire Protection Systems Design**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENFP300. Corequisite: ENFP312. Restriction: Permission of ENGR-Fire Protection Engineering department.

Introduction to aqueous fire suppression. Discussion of key fluid dynamics and heat transfer processes in aqueous fire suppression. System design and performance analysis based on national standards, hydraulic theory and elementary fluid dynamics and heat transfer.

0101	Kenneth Isman	Seats (Total: 50)
	M 11:00am - 11:50am	ESJ 2212
	W 11:00am - 12:50pm	ESJ 2212
	F 9:00am - 9:50am	ESJ 2212

ENFP312 **Heat and Mass Transfer**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENES232 and ENFP300. Restriction: Permission of ENGR-Fire Protection Engineering department.

Fundamentals of heat and mass transfer. Conduction, convection, and radiation modes of heat transfer. Diffusion concepts and evaporation phenomena. Problem solving techniques with application to fire problems.

0105	Marino diMarzo	Seats (Total: 31)	
	MW 9:00am - 9:50am	EGR 1202	
	M 1:00pm - 2:50pm	JMP 1109	Lab

ENFP405 **Structural Fire Protection**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENES220. Restriction: Must be in Engineering: Fire Protection program; and permission of ENGR-Fire Protection Engineering department. Credit only granted for: ENFP405 or ENFP621.

Effects of elevated temperature on structural materials; steel, concrete, wood, gypsum, glass and reinforced plastics. Experimental evaluation of fire resistance of building assemblies. Analytical methods to evaluate fire resistance of structural members.

0101	Jose Torero	Seats (Total: 50)
	TuTh 9:30am - 10:45am	ESJ 1215

ENFP413 **Advanced Life Safety Analysis**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENFP250. Restriction: Permission of ENGR-Fire Protection Engineering department. Also offered as: ENFP613. Credit only granted for: ENFP413 or ENFP613.

Fractional effective dose (FED) methods for predicting time to incapacitation and death of fires for use in fire safety calculations. Physiology and toxicology of the fire effluent components, decomposition chemistry of common materials, standard experimental approaches. Predictive models of material production rates. People movement characteristics related to building evacuation. Formulation and application of evacuation models. Human behavior factors affecting response of people to fire situations.

0101	Christopher Campbell, James Milke	Seats (Total: 45)
	TuTh 2:00pm - 3:15pm	EGR 1108

ENFP415 **Fire Dynamics**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENFP312. Restriction: Permission of ENGR-Fire Protection Engineering department. Also offered as: ENFP651. Credit only granted for: ENFP415 or ENFP651.

Designed to give students a quantitative understanding of fire behavior. The fundamentals of physics and chemistry of combustion are presented and used to derive key analytical relationships that describe fire growth. Application of these relationships to the analysis of common fire scenarios is emphasized.

0101	Stanislav Stoliarov	Seats (Total: 41)
	TuTh 11:00am - 12:15pm	PHY 1204

ENFP425 **Enclosure Fire Modeling**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENES232, ENFP300, and ENFP312. Restriction: Must be in Engineering: Fire Protection program; and senior standing; and permission of ENGR-Fire Protection Engineering department.

An introduction to enclosure fire dynamics through the development of fire modeling algorithms and the application of computer-based fire modeling techniques. The objectives of the course are: to provide a basic understanding of enclosure fire dynamics with an emphasis on a system-level viewpoint (i.e., a global description of the coupling between combustion dynamics, smoke filling, vent flows and heat transfer); and to provide an introduction to the zone modeling approach. Topics covered include a review of the mathematical formulation of zone models, a discussion of numerical integration of the zone modeling equations (using MATLAB), and an introduction to zone modeling software used by professional engineers (e.g., CFAST).

0101	Arnaud Trouve	Seats (Total: 50)
	TuTh 3:30pm - 4:45pm	PHY 4221

ENFP429 **Independent Studies**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

For students who have definite plans for individual study of approved problems, or study of an advanced topic selected in conjunction with the faculty.

Senior standing. For ENFP majors only.

Contact department for information to register for this course.

ENFP489 **Special Topics**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Selected topics of current importance to fire protection.

For ENFP majors only.

Contact department for information to register for this course.

ENFP601 **Fundamentals of Fire Safety**

Credits: 3

Grading Method: Regular, Audit

Additional information: Recommended to incoming graduate students to Fire Protection Engineering who have not earned a Bachelor's Degree in Fire Protection Engineering.

Fundamental principles by which fire protection is introduced in the built environment, processes and systems. Survey prescriptive and quantitative design tools to gain critical perspective on how fire safety interacts with other design constraints, professional disciplines and regulatory environments.

0101	Jose Torero	Seats (Total: 15)
	TuTh 12:30pm - 1:45pm	AJC 2121

ENFP611 **Fire Induced Flows**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: ENFP415.

Theoretical basis is presented for fire induced bouyancy driven flows. Plumes, ceiling jets, vent flows, compartment flows. Dimensional analysis for correlations and scale model applications. Smoke movement and combustion products.

0101	Michael Gollner	Seats (Total: 20)
	TuTh 3:30pm - 4:45pm	EGR 3114

ENFP613 **Human Response to Fire**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Prerequisite: Permission of ENGR-Fire Protection Engineering department. Credit only granted for: ENFP413 or ENFP613.

Fractional effective dose (FED) methods for predicting time to incapacitation and death of fires for use in fire safety engineering calculations. Physiology and toxicology of fire effluent components, decomposition chemistry of common materials, standard experimental approaches. Predictive models of material production rates. People movement characteristics related to building evacuation. Formulation and application of evacuation models. Human behavior factors affecting response of people to fire situations.

0101	James Milke TuTh 2:00pm - 3:15pm	Seats (Total: 20) EGR 1108
EF01	Jamie McAllister **Meets September 10, 2018 - November 30, 2018** Class time/details on ELMs *Permission of OAEE needed on section EF01*	Seats (Total: 40) ONLINE

ENFP619 **Graduate Seminar**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

0101	Arnaud Trouve Contact instructor or department for details.	Seats (Total: 5)

ENFP621 **Analytical Procedures of Structural Fire Protection**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENFP312. Also offered as: ENFP621. Credit only granted for: ENFP405 or ENFP621.

Analysis procedures for structural components of wood, steel, concrete, composites. Structural capabilities, modifications under fire induced exposures. Calculations, computer models for predicting fire resistance ratings of structural components.

0101	Jose Torero TuTh 9:30am - 10:45am	Seats (Total: 14) ESJ 1215

ENFP626 **Computational Fire Modeling**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENFP300 and ENFP312. Restriction: Permission of ENGR-Fire Protection Engineering department.

Introduction to Computational Fluid Dynamics (CFD)-based fire modeling; governing equations of turbulent reacting flows; numerical approaches to the treatment of turbulence (DNS, LES, RANS); numerical methods for partial differential equations; physical modeling of enclosure fires (turbulence, combustion, thermal radiation, pyrolysis, suppression). Development of sample programs (Matlab) and use of current CFD-based fire models (FDS).

0101	Arnaud Trouve	Seats (Total: 20)
	TuTh 12:30pm - 1:45pm	HBK 1112

ENFP629 **Selected Topics**

(Perm req)

Credits: 3-6 Grading Method: Regular, Audit

Current research, studies in fire protection engineering. Future trends and significant changes in research, professional areas. The professional standards process.

Contact department for information to register for this course.

ENFP649 **Special Problems**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics selected by the faculty from the current literature to suit the special needs and background of students, or for individual students who have definite plans of individual study.

Prerequisite: permission of department.

Contact department for information to register for this course.

ENFP651 **Advanced Fire Dynamics**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: ENFP629A or ENFP651. Formerly: ENFP629A.

A review of the basic chemistry and physics necessary to understanding fire dynamics; and of the physics of heat transfer and turbulent fluid flow will be given. The nature and structure of premixed and diffusion flames will be presented.

0101	Stanislav Stoliarov	Seats (Total: 14)
	TuTh 11:00am - 12:15pm	PHY 1204

ENFP653 **Advanced Fire Supression**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of ENGR-Fire Protection Engineering department. Credit only granted for: ENFP410, ENFP489L, ENFP653, or ENFP629C. Formerly: ENFP629C.

Issues related to the suppression of fires and the design of fire suppression systems. Theoretical aspects of fire suppression and extinction are considered to provide the foundation for the practical design of different types of fire suppression systems. Focus on water-based and "clean agent" fire suppression systems, with emphasis on high challenge and special hazard applications. Systems using other agents are introduced, but are not addressed in detail.

EF01	Jason Sutula	Seats (Total: 40)
	Meets September 10, 2018 - November 30, 2018	
	Class time/details on ELMs	ONLINE
	Permission of OAEE needed on section EF01.	

ENFP799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular, Sat-Fail

Development and completion of Master's Thesis.

Contact department for information to register for this course.

ENGL English Fall 2018

English as a second language classes are listed under UMEI. For more detailed course descriptions, click here to visit the English department website.

ENGL101 **Academic Writing**

Credits: 3 Grading Method: Regular General Education: FSAW

Additional information: Any student who has not successfully completed this course by Fall 2017 must complete this course with a minimum grade of C- in order to fulfill the General Education Fundamental Studies Academic Writing requirement.

An introductory course in expository writing.

Students with a TWSE score below 33 must take ENGL 101A in place of ENGL101. Students for whom English is a second language should consider taking ENGL101X in place of ENGL101. This class meets in person twice a week, the other class work is done online. http://www.english.umd.edu/academics/academicwriting/BlendedLearning"

Click here for more course information.

0001	Katherine Joshi MWF 8:00am - 8:50am	Seats (Total: 19) TWS 0201
0002	Jesse Brooks MWF 8:00am - 8:50am	Seats (Total: 19) TWS 0205
0101	Jesse Brooks MWF 9:00am - 9:50am	Seats (Total: 19) TWS 0201
0102	Peter Witte MWF 9:00am - 9:50am	Seats (Total: 19) TWS 0205
0103	Susan Pramschufer MWF 9:00am - 9:50am	Seats (Total: 19) TWS 0214
0108	Jeannette Schollaert MWF 9:00am - 9:50am	Seats (Total: 19) TWS 0236
0201	Peter Witte MWF 10:00am - 10:50am	Seats (Total: 19) TWS 0201
0203	Cheryl Spinner MWF 10:00am - 10:50am	Seats (Total: 19) TWS 0221
0205	Jesse Brooks MWF 10:00am - 10:50am	Seats (Total: 19) TWS 0205
0206	April Fuller MWF 10:00am - 10:50am	Seats (Total: 19) KEY 0123
0208	Sabrina Islam MWF 10:00am - 10:50am	Seats (Total: 19) KEY 0125
0302	Nia Crawford MWF 11:00am - 11:50am	Seats (Total: 19) KEY 0102
0303	Melanie Rio MWF 11:00am - 11:50am	Seats (Total: 19) KEY 0121
0304	Kristine Morrissey MWF 11:00am - 11:50am	Seats (Total: 19) TWS 0205

0305	Sabrina Islam MWF 11:00am - 11:50am	Seats (Total: 19) KEY 0125
0306	Peter Witte MWF 11:00am - 11:50am	Seats (Total: 19) KEY 0123
0402	Ayesha Shibli MWF 12:00pm - 12:50pm	Seats (Total: 19) KEY 0123
0403	Sabrina Islam MWF 12:00pm - 12:50pm	Seats (Total: 19) KEY 0125
0404	Kristofer Reed MWF 12:00pm - 12:50pm	Seats (Total: 19) TWS 1313
0406	Kiyanna Hill MWF 12:00pm - 12:50pm	Seats (Total: 19) ASY 3217
0407	Nia Crawford MWF 12:00pm - 12:50pm	Seats (Total: 19) ASY 3221
0502	Alysia Sawchyn MWF 1:00pm - 1:50pm	Seats (Total: 19) PLS 1168
0503	Jehane Sharah MWF 1:00pm - 1:50pm	Seats (Total: 19) KEY 0102
0504	Sabrina Islam MWF 1:00pm - 1:50pm	Seats (Total: 19) TWS 1106
0505	Elizabeth Catchmark MWF 1:00pm - 1:50pm	Seats (Total: 19) TWS 1107
0508	Benjamin Baker MWF 1:00pm - 1:50pm	Seats (Total: 19) TWS 1313
0602	Porter Olsen MWF 2:00pm - 2:50pm	Seats (Total: 19) ASY 3221
0603	D'Arcee Neal MWF 2:00pm - 2:50pm	Seats (Total: 19) TWS 1321

0604	Jeffrey Moro MWF 2:00pm - 2:50pm	Seats (Total: 19) KEY 0102
0605	Alexandria Nunn MWF 2:00pm - 2:50pm	Seats (Total: 19) ASY 3219
1001	Kathleen Buckley TuTh 8:00am - 9:15am	Seats (Total: 19) TWS 0214
1002	Bryan Head TuTh 8:00am - 9:15am	Seats (Total: 19) TWS 0221
1102	Kerishma Panigrahi TuTh 9:30am - 10:45am	Seats (Total: 19) TWS 0201
1103	Rakia Khalid TuTh 9:30am - 10:45am	Seats (Total: 19) KEY 0102
1104	Derek Ellis TuTh 9:30am - 10:45am	Seats (Total: 19) TWS 1106
1105	Maggie Gill TuTh 9:30am - 10:45am	Seats (Total: 19) EDU 1121
1106	Nicole Cuffy TuTh 9:30am - 10:45am	Seats (Total: 19) TWS 0214
1107	Matthew Cascio TuTh 9:30am - 10:45am	Seats (Total: 19) KNI 1103
1203	Temima Fruchter TuTh 11:00am - 12:15pm	Seats (Total: 19) KEY 0102
1204	Bryan Head TuTh 11:00am - 12:15pm	Seats (Total: 19) ASY 3219
1205	Juliane Kim TuTh 11:00am - 12:15pm	Seats (Total: 19) JMZ 3203
1207	Robert Lucci TuTh 11:00am - 12:15pm	Seats (Total: 19) TWS 1107

1301	Fatima Taha TuTh 12:30pm - 1:45pm	Seats (Total: 19) TWS 1313
1302	Garth Libhart TuTh 12:30pm - 1:45pm	Seats (Total: 19) JMZ 2117
1303	Nicolette Polek TuTh 12:30pm - 1:45pm	Seats (Total: 19) JMZ 1117
1304	William Pittman TuTh 12:30pm - 1:45pm	Seats (Total: 19) JMZ 1224
1305	Rakia Khalid TuTh 12:30pm - 1:45pm	Seats (Total: 19) JMZ 0208
1306	Nicole Cuffy TuTh 12:30pm - 1:45pm	Seats (Total: 19) TWS 1321
1307	Heather McHale TuTh 12:30pm - 1:45pm *Restricted to students in Institute of Applied Agriculture.*	Seats (Total: 17) JUL 1123
1401	Brittany Starr TuTh 2:00pm - 3:15pm	Seats (Total: 19) JMZ 2117
1402	Peter Grybauskas TuTh 2:00pm - 3:15pm	Seats (Total: 19) JMZ 0103
1403	Elizabeth Straathof TuTh 2:00pm - 3:15pm	Seats (Total: 19) ASY 3215
1404	Kathy Danielson TuTh 2:00pm - 3:15pm	Seats (Total: 19) TWS 0207
9001	Konstantinos Pozoukidis Tu 9:30am - 10:45am Th 9:30am - 10:45am	Seats (Total: 19) KEY 0120 ONLINE
9002	Susan Pramschufer Tu 11:00am - 12:15pm Th 11:00am - 12:15pm	Seats (Total: 19) KEY 0120 ONLINE

9003	Rachel Waugh Th 9:30am - 10:45am Tu 9:30am - 10:45am	Seats (Total: 19) KEY 0120 ONLINE
9004	Rachel Waugh Th 11:00am - 12:15pm Tu 11:00am - 12:15pm	Seats (Total: 19) KEY 0120 ONLINE
9005	David Brookshire MF 10:00am - 10:50am Class time/details on ELMs	Seats (Total: 19) KEY 0120 ONLINE
9006	David Brookshire MF 11:00am - 11:50am Class time/details on ELMs	Seats (Total: 19) KEY 0120 ONLINE
9007	David Brookshire MF 12:00pm - 12:50pm Class time/details on ELMs	Seats (Total: 19) KEY 0120 ONLINE
9008	David Brookshire MF 1:00pm - 1:50pm Class time/details on ELMs	Seats (Total: 19) KEY 0120 ONLINE
9009	Emily Lyons MW 10:00am - 10:50am Class time/details on ELMs	Seats (Total: 19) TWS 0214 ONLINE
9010	Emily Lyons MW 11:00am - 11:50am Class time/details on ELMs	Seats (Total: 19) TWS 1107 ONLINE
9011	Roberto Leon MW 12:00pm - 12:50pm Class time/details on ELMs	Seats (Total: 19) TWS 0201 ONLINE
9012	Emily Lyons MW 1:00pm - 1:50pm Class time/details on ELMs	Seats (Total: 19) TWS 0214 ONLINE

9013	Amanda Allen Tu 9:30am - 10:45am Th 9:30am - 10:45am	Seats (Total: 19) KEY 0123 ONLINE
9014	Amanda Allen Tu 11:00am - 12:15pm Th 11:00am - 12:15pm	Seats (Total: 19) KEY 0123 ONLINE
9015	Amanda Allen Tu 12:30pm - 1:45pm Th 12:30pm - 1:45pm	Seats (Total: 19) KEY 0120 ONLINE
9016	Amanda Allen Tu 2:00pm - 3:15pm Th 2:00pm - 3:15pm	Seats (Total: 19) KEY 0120 ONLINE
9017	Tricia Raysor Th 9:30am - 10:45am Tu 9:30am - 10:45am	Seats (Total: 19) KEY 0123 ONLINE
9018	Sara Faradji Th 11:00am - 12:15pm Tu 11:00am - 12:15pm	Seats (Total: 19) KEY 0123 ONLINE
9019	John Macintosh Th 12:30pm - 1:45pm Tu 12:30pm - 1:45pm	Seats (Total: 19) KEY 0120 ONLINE
9020	Tricia Raysor Th 2:00pm - 3:15pm Tu 2:00pm - 3:15pm	Seats (Total: 19) KEY 0120 ONLINE
9021	Nabila Hijazi Tu 12:30pm - 1:45pm Th 12:30pm - 1:45pm	Seats (Total: 19) KEY 0102 ONLINE
9022	Lyra Hilliard Th 12:30pm - 1:45pm Tu 12:30pm - 1:45pm	Seats (Total: 19) KEY 0102 ONLINE

FC01	Benjamin Baker MW 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) KEY 0102
FC02	Brian Davis MW 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) KEY 0102
FC03	Brian Davis MW 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) TWS 0205
FC04	Michael Kolakoski MW 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) TWS 0214
FC05	Virginia Butler MW 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) TWS 0236
FC06	Kelly Singleton MW 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) KEY 0102
FC07	Michael Kolakoski MW 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) KEY 0123
FC08	Sarah Humud TuTh 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) KEY 0123
FC09	Kristine Morrissey TuTh 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) KEY 0120
FC10	Carlos Chism TuTh 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) KEY 0120

FC11	Nia Crawford TuTh 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) TWS 0236
FC12	Daniel Kason MW 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) TWS 0214
FC13	Anna Goodson TuTh 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) KEY 0120
FC14	Kimberly Park TuTh 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) KEY 0125
FC15	Nia Crawford TuTh 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) KEY 0123
FC16	Michael Colson TuTh 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) KEY 0102
FC17	John Macintosh TuTh 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) TWS 0221
FC18	Peter Grybauskas TuTh 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) ASY 3221
FC19	Stephanie Allen MW 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) KEY 0120
FC20	Stephanie Allen MW 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) KEY 0120

FC21	Robert Lucci MW 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) ASY 3221
FC22	Steve Beaulieu TuTh 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) TWS 0221
FC23	Radford Skudrna MW 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) KEY 0123
FC24	Nathaniel Underland TuTh 6:00pm - 7:15pm *Restricted to Freshmen Connection Students.*	Seats (Total: 19) TWS 0205
FC25	Uchechi Okereke-Beshel TuTh 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) TWS 0214
FC26	Benjamin Baker MW 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) JMZ 1120
FC27	Brian Davis MW 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) TWS 1321

ENGL101A **Academic Writing**

Credits: 3 Grading Method: Regular General Education: FSAW

Additional information: Any student who has not successfully completed this course by Fall 2017 must complete this course with a minimum grade of C- in order to fulfill the General Education Fundamental Studies Academic Writing requirement.

An introductory course in expository writing.

Students should take ENGL 101A rather than ENGL 101 if their TWSE score (a subscore of the SAT verbal) is 33 or below.

1702	Robert Lucci TuTh 9:30am - 10:45am	Seats (Total: 15) JMZ 2207
1703	Joshua Weiss MWF 12:00pm - 12:50pm	Seats (Total: 15) KEY 0102

ENGL101C **Academic Writing**

Credits: 3 Grading Method: Regular General Education: FSAW

Additional information: Any student who has not successfully completed this course by Fall 2017 must complete this course with a minimum grade of C- in order to fulfill the General Education Fundamental Studies Academic Writing requirement.

An introductory course in expository writing.

Restricted to students in the Civicus Program.

0209	Joshua Weiss MWF 10:00am - 10:50am	Seats (Total: 19) SOM 0101
0309	Joshua Weiss MWF 11:00am - 11:50am	Seats (Total: 19) SOM 0101

ENGL101H **Academic Writing**

Credits: 3 Grading Method: Regular General Education: FSAW

Additional information: Any student who has not successfully completed this course by Fall 2017 must complete this course with a minimum grade of C- in order to fulfill the General Education Fundamental Studies Academic Writing requirement.

An introductory course in expository writing.

For general honors students or students with a verbal SAT of 600 or better.

0109	Katherine Joshi MWF 9:00am - 9:50am	Seats (Total: 19) TWS 1106
0210	Katherine Joshi MWF 10:00am - 10:50am	Seats (Total: 19) KEY 0102
0310	Jesse Brooks MWF 11:00am - 11:50am	Seats (Total: 19) TWS 0221

0407	Cheryl Spinner MWF 12:00pm - 12:50pm	Seats (Total: 19) TWS 1320
0507	Joshua Weiss MWF 1:00pm - 1:50pm	Seats (Total: 19) TWS 1321
1107	Emilee Durand TuTh 9:30am - 10:45am	Seats (Total: 19) JMZ 3205
1207	Andy Yeh TuTh 11:00am - 12:15pm	Seats (Total: 19) KNI 1105

ENGL101S **Academic Writing**

Credits: 3 Grading Method: Regular General Education: FSAW

Additional information: Any student who has not successfully completed this course by Fall 2017 must complete this course with a minimum grade of C- in order to fulfill the General Education Fundamental Studies Academic Writing requirement.

An introductory course in expository writing.

This course is restricted to College Park Scholars.

0110	Kelsey Kerr MWF 9:00am - 9:50am	Seats (Total: 19) CCC 1111
0211	Jeffrey Griswold MWF 10:00am - 10:50am	Seats (Total: 19) CCC 1115
0212	Kelsey Kerr MWF 10:00am - 10:50am	Seats (Total: 19) CCC 1105
0311	Kelsey Kerr MWF 11:00am - 11:50am	Seats (Total: 19) CCC 1105
0312	Lara Payne MWF 11:00am - 11:50am	Seats (Total: 19) CCC 1115
0410	Kelsey Kerr MWF 12:00pm - 12:50pm	Seats (Total: 19) CCC 1115

0509	Lara Payne MWF 1:00pm - 1:50pm	Seats (Total: 19) CCC 1115
0607	Kelly Singleton MWF 2:00pm - 2:50pm	Seats (Total: 19) CCC 1105
1108	John Kim TuTh 9:30am - 10:45am	Seats (Total: 19) CCC 1115
1208	Samantha O'Connor TuTh 11:00am - 12:15pm	Seats (Total: 19) CCC 1105
1209	Nancy Vera TuTh 11:00am - 12:15pm	Seats (Total: 19) CCC 1115
1210	John Kim TuTh 11:00am - 12:15pm	Seats (Total: 19) CCC 1200
1308	Nancy Vera TuTh 12:30pm - 1:45pm	Seats (Total: 19) CCC 1115
9001	Catherine Bayly MF 12:00pm - 12:50pm Class time/details on ELMs	Seats (Total: 19) CCC 1205 ONLINE
9002	Catherine Bayly MF 1:00pm - 1:50pm Class time/details on ELMs	Seats (Total: 19) CCC 1205 ONLINE

ENGL101X **Academic Writing**

Credits: 3 Grading Method: Regular General Education: FSAW

Additional information: Any student who has not successfully completed this course by Fall 2017 must complete this course with a minimum grade of C- in order to fulfill the General Education Fundamental Studies Academic Writing requirement.

An introductory course in expository writing.

Limited to students for whom English is a second language. The following are indications that a student should register for English 101X: 1) an iBT TOEFL score of 100 overall, with a writing section score of at least 24; 2) an IELTS score of 7.0 overall, with a writing score of at least 7.0; 3) satisfactory completion of UMEI 005: Advanced English as a Foreign Language.

2002	William Pittman TuTh 9:30am - 10:45am	Seats (Total: 18) TWS 1320
2003	William Pittman TuTh 11:00am - 12:15pm	Seats (Total: 18) JMZ 0208
2004	Nathan Tillman MWF 10:00am - 10:50am	Seats (Total: 18) KEY 0121
2005	Justin Lohr MWF 12:00pm - 12:50pm	Seats (Total: 18) JMZ 0103
2006	Laura Williams TuTh 2:00pm - 3:15pm	Seats (Total: 18) TWS 1105
2007	Benjamin Baker MWF 11:00am - 11:50am	Seats (Total: 18) ASY 3221

ENGL132 **Aliens, Exiles, and Immigrants**

Credits: 3 Grading Method: Regular General Education: DSHU, DVUP, SCIS

Credit only granted for: ENGL132 or ENGL289Z. Formerly: ENGL289Z.

Exploration of ideas, beliefs, and aspirations that immigrants carry from one nation to another. Different ways of understanding national and cultural identities, and ways the experiences of immigration have changed significantly over time. Readings examine historical and contemporary immigrant writing, including post-9/11 poetry and fiction; memoirs of nineteenth-century British emigrants to South Africa, Australia, and Canada; literature by emigrants from Asia, the Middle East, and Latin America now living in the United States; and writing by individuals displaced by war, famine, and political conflict. Politics of immigration and citizenship; historical and contemporary arguments for and against immigration and assimilation.

0101	Michael Kolakoski MWF 11:00am - 11:50am	Seats (Total: 30) TWS 1106
0201	Thibault Raoult TuTh 5:00pm - 6:15pm	Seats (Total: 30) TWS 0201

ENGL140 **American Fictions: Cross-Examining U.S. Literature, History, and Politics**

Credits: 3 | Grading Method: Regular | General Education: DSHU, SCIS

Credit only granted for: ENGL140 or ENGL289Y. Formerly: ENGL289Y.

Works of American literature explored in the context of major texts and developments of U.S. history, culture, politics, and constitutional law. We begin with the Declaration of Independence and the U.S. Constitution, and survey the course of American literature and history, from 1776 to the present, in relation to defining political and constitutional issues. Readings of canonical works like "Huckleberry Finn" and "The Grapes of Wrath" coupled with special attention to minority authors and issues, and horizons of constitutional contemplation opened up by minority, immigrant, and women's voices and experiences. Key historical and political issues include human rights; equal protection; religious tolerance; democratic principles; republican structures of government; independence; revolution; slavery; removal; immigration; free speech; labor rights; civil rights; feminism; environmentalism; international law and flows of people; economic globalization; technology and digital innovation; and the role that literature and the humanities play in fostering various forms of civil society, multiculturalism, and a globally accountable citizenship.

0101	Peter Mallios MW 1:00pm - 1:50pm F 10:00am - 10:50am	Seats (Total: 24) TWS 1100 TWS 0236	Discussion
0102	Peter Mallios MW 1:00pm - 1:50pm F 11:00am - 11:50am	Seats (Total: 24) TWS 1100 TWS 0236	Discussion
0103	Peter Mallios MW 1:00pm - 1:50pm F 12:00pm - 12:50pm	Seats (Total: 24) TWS 1100 TWS 0236	Discussion
0104	Peter Mallios MW 1:00pm - 1:50pm F 1:00pm - 1:50pm	Seats (Total: 24) TWS 1100 TWS 0236	Discussion

ENGL143 **Visualizing Knowledge: From Data to Images**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU, SCIS

Explores how technology and people shape our current age of information through the various forms of visually representing information. Visualizations do not show us things that are evident--visualizations make things evident. We will thus examine the history of visualization practices, the theories of image-making that guide their production, and the current state of the art. Students will engage critically with a wide range of information visualization practices to gain an understanding of the work involved in producing them and their histories. Students will also seek out contemporary visualizations, interact with the practitioners who produce them, and produce their own visualization as a response or critique.

Restricted to students in Carillon Communities.

0101	Oliver Gaycken MW 5:00pm - 6:15pm	Seats (Total: 30) TWS 1107

ENGL150 **Uncanny Technologies: Monsters, Droids, and Vampires**

Credits: 3 Grading Method: Regular General Education: DSHU, SCIS

Credit only granted for: ENGL150 or ENGL289T. Formerly: ENGL289T.

Explores dark, uncertain borders between human and nonhuman, natural and unnatural, life and death. What literature teaches about new technologies that seek to represent or replicate human experience. Examination of a series of nineteenth-century American, French, German, and British novels and stories from Frankenstein (1818) to Dracula (1897) featuring recently introduced media and inventions such as photographs, phonographs, automata, and motion pictures that are concerned, like works of literature, with recording and reproducing human consciousness and human body.

0201	James Goodwin TuTh 11:00am - 12:15pm	Seats (Total: 30) TWS 0214
0301	James Goodwin TuTh 2:00pm - 3:15pm	Seats (Total: 30) TWS 0221

ENGL201 **Inventing Western Literature: Ancient and Medieval Traditions**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HL General Education: DSHU

Wide range of texts, genres, and themes from ancient and medieval Western traditions. Study of cultural, historical, and artistic forces shaping traditions, and the influence and relevance of those traditions to life in twenty-first century.

0101	Justine DeCamillis MWF 12:00pm - 12:50pm	Seats (Total: 30) TWS 1106

ENGL202 **Inventing Western Literature: Renaissance to Modern**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HL General Education: DSHU

Wide range of texts from the Renaissance to the 21st century. Themes and literary techniques in the evolution of Western literature. Print publication, industrialization, questioning of religious, political, intellectual, and cultural authority.

Contact department for information to register for this course.

ENGL206 **Shakespeare**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HL | General Education: DSHU

Credit only granted for: ENGL205, ENGL206, or ENGL289I. Formerly: ENGL205.

Shakespeare's poems, history plays, comedies, and tragedies as investigations into language use, governance, sexuality, ethics, and mortality.

0201	Liam Daley TuTh 3:30pm - 4:45pm	Seats (Total: 30) TWS 0205

ENGL211 **English Literature: Beginnings to 1800**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HL | General Education: DSHU

Surveys medieval and early modern literary works written in England. Readings may include Beowulf, Chaucer, Spenser, Mary Wroth, Milton; eighteenth-century satire, drama, novels.

Contact department for information to register for this course.

ENGL222 **American Literature: 1865 to Present**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HL | General Education: DSHU

Surveys American writing from the Civil War through the Cold War. Authors such as Clemens, Frost, Hurston, Bellow.

0301	Sarah Humud TuTh 9:30am - 10:45am	Seats (Total: 30) TWS 0221

ENGL233 **Introduction to Asian American Literature**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HL, D | General Education: DSHU, DVUP

Restriction: Must not have completed AAST233. Also offered as: AAST233. Credit only granted for: AAST233, AAST298L, or ENGL233.

A survey of Asian American literatures with an emphasis on recurrent themes and historical context.

0101	Andy Yeh TuTh 9:30am - 10:45am	Seats (Total: 35) TWS 1310

ENGL234 **African-American Literature and Culture**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: HL, D	General Education: DSHU, DVUP

An exploration of the stories black authors tell about themselves, their communities, and the nation as informed by time and place, gender, sexuality, and class. African American perspective themes such as art, childhood, sexuality, marriage, alienation and mortality, as well as representations of slavery, Reconstruction, racial violence and the Nadir, legalized racism and segregation, black patriotism and black ex-patriots, the optimism of integration, and the prospects of a post-racial America.

Also offered as AASP298L. Credit will be granted for one of the following: AASP298L or ENGL234.

0201	Norrell Edwards	Seats (Total: 30)
	MWF 12:00pm - 12:50pm	TWS 1107

ENGL235 **U.S. Latina/o Literature and Culture**

Credits: 3	Grading Method: Regular, Pass-Fail	CORE: HL, D	General Education: DSHU, DVUP

Examines the poetry, prose, and theater of Latinx communities in the United States from their origins in the Spanish colonization of North America to their ongoing development in the 21st century. Considers how authors use literary form to gain insight into human experience, including mortality, religious belief, gender and sexuality, war and peace, family, language use, scientific inquiry, cultural tradition, ecology, and labor. Also studies how Latinx literary traditions have shaped and been shaped by broader currents in American literature, as well as what connections exist between Latinx literature and social and artistic developments in other parts of the world, particularly Latin America and the Caribbean. Authors may include Alvar Nunez Cabeza de Vaca, Eulalia Perez, Juan Nepomuceno Seguin, Maria Amparo Ruiz de Burton, Jose Marti, Arthur A. Schomburg, Jesus Colon, Julia de Burgos, Cesar Chavez, Ariel Dorfman, Gloria Anzaldua, Junot Diaz, and Cristina Garcia.

Additional Note: Also offered as AMST298Q. Credit granted for ENGL235 or AMST298Q.

0101	Keisha Allan	Seats (Total: 30)
	MW 5:00pm - 6:15pm	TWS 0221

ENGL240 **Introduction to Fiction, Poetry, and Drama**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: HL

Readings in the novel, short story, poetry and drama.

Contact department for information to register for this course.

ENGL243 **What is Poetry?**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HL | General Education: DSHU

An exploration of arguably the most complex, profound, and ubiquitous expression of human experience. Study through close reading of significant forms and conventions of Western poetic tradition. Poetry's roots in oral and folk traditions and connections to popular song forms.

0201	Garth Libhart TuTh 2:00pm - 3:15pm	Seats (Total: 30) KEY 0125	

ENGL245 Film Form and Culture

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HA | General Education: DSHU

Restriction: Must not have completed FILM245. Also offered as: FILM245. Credit only granted for: CMLT214, CMLT245, ENGL245, or FILM245. Formerly: CMLT214.

Introduction to film as art form and how films create meaning. Basic film terminology; fundamental principles of film form, film narrative, and film history. Examination of film technique and style over past one hundred years. Social and economic functions of film within broader institutional, economic, and cultural contexts.

0101	Mauro Resmini MW 11:00am - 11:50am W 3:00pm - 5:30pm F 10:00am - 10:50am	Seats (Total: 25) TWS 0320 TWS 0320 TWS 1107	 Lab Discussion
0102	Mauro Resmini MW 11:00am - 11:50am W 3:00pm - 5:30pm F 11:00am - 11:50am	Seats (Total: 25) TWS 0320 TWS 0320 TWS 1107	 Lab Discussion
0103	Mauro Resmini MW 11:00am - 11:50am W 6:00pm - 8:30pm F 11:00am - 11:50am	Seats (Total: 25) TWS 0320 TWS 0320 TWS 1320	 Lab Discussion
0104	Mauro Resmini MW 11:00am - 11:50am W 6:00pm - 8:30pm F 12:00pm - 12:50pm	Seats (Total: 25) TWS 0320 TWS 0320 TWS 0201	 Lab Discussion

FCH1	Paul Cote M 6:00pm - 7:15pm Class time/details on ELMs *Restricted to students in Freshmen Connection.*	Seats (Total: 30) TLF 1101 ONLINE

ENGL250 **Reading Women Writing**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HL, D | General Education: DSHU, DVUP

Also offered as: WMST255. Credit only granted for: ENGL250 or WMST255.

Explores literary and cultural expressions by women and their receptions within a range of historical periods and genres. Topics such as what does a woman need in order to write, what role does gender play in the production, consumption, and interpretation of texts, and to what extent do women comprise a distinct literary subculture. Interpretation of texts will be guided by feminist and gender theory, ways of reading that have emerged as important to literary studies over the last four decades.

0201	Emilee Durand TuTh 12:30pm - 1:45pm	Seats (Total: 30) TWS 1107

ENGL255 **Literature of Science and Technology**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HL | General Education: DSHU

Credit only granted for: ENGL255 or ENGL278T. Formerly: ENGL278T.

Examines science and technology through the lens of British and America literature, primarily between 1800 and the present. Readings from early natural and experimental philosophers of the Scientific Revolution and Enlightenment. How literary works represent the ethics of science and technology; beneficial developments of science, and also heavy toll of industrialization. Writers studied may include Francis Bacon, Mary Shelley, Charles Darwin, H.G. Wells, Albert Einstein, Aldous Huxley, Richard Feynman, Philip K. Dick, Octavia Butler, Michael Frayn, and Tom Stoppard.

0101	Konstantinos Pozoukidis TuTh 12:30pm - 1:45pm	Seats (Total: 30) TWS 1105
FC01	Michael Colson TuTh 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 30) KEY 0102

ENGL256 **Fantasy Literature**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU

How fantasy employs alternate forms of representation, such as the fantastical, estranging, or impossible, which other genres would not allow. Through novels, short stories, graphic novels, and film, traces fantasy's roots in mythology and folklore, then explores how modern texts build upon or challenge these origins. Examination of literary strategies texts use to represent the world through speculative modes. How to distinguish fantasy from, and relate it to, other genres such as science fiction, horror, fairly tales, and magical realism. Fantasy's investment in world-building, history, tradition, and categories of identity such as race, class, and gender. How fantasy, as a genre, form, and world-view, is well-suited to our contemporary reality.

0101	William Gonch	Seats (Total: 30)
	MWF 12:00pm - 12:50pm	TWS 0214

ENGL257 **Children's Literature**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU

Literature of the nineteenth through the twenty-first century concerned with, and written for, children and young adults. How such narratives speak to themes of changing social, religious, political, and personal identity. Through poetry, novels, graphic novels, and film, explores how children's tales encapsulate and reflect on human existence, while pushing boundaries of what constitutes "children's literature" and what exactly defines the "child." Considers questions of literary classification through investigation of political and religious issues, gender politics, animal rights, social justice, race, war, and what it means to "grow up."

0101	Virginia Butler	Seats (Total: 30)
	MW 3:30pm - 4:45pm	TWS 0221

ENGL265 **Lesbian, Gay, Bisexual, and Transgender Literatures**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HL, D | General Education: DSHU, DVUP

Restriction: Must not have completed LGBT265. Also offered as: LGBT265. Credit only granted for: ENGL265 or LGBT265.

A study of literary and cultural expressions of queer and trans identities, positionalities, and analytics through an exploration of literature, art, and media. We will examine historical and political power relations by considering the intersections of sexuality and gender with race, class, nation, and disability. Topics include the social construction and regulation of sexuality and gender, performance and performativity, intersectionality, and the relationship between aesthetic forms and queer/ trans subjectivity. Our interpretations will be informed by queer and trans theories.

0101	Justin Thompson TuTh 12:30pm - 1:45pm	Seats (Total: 30) TWS 1106
0201	Hillary Roegelein TuTh 2:00pm - 3:15pm	Seats (Total: 30) LEF 1220

ENGL269A **Special Topics in Study Abroad II; German Romanticism in its European Context**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL269B **Special Topics in Study Abroad II; Writing Workshop I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL269C **Special Topics in Study Abroad II; Writing Workshop II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL269R **Special Topics in Study Abroad II; Writing Rome**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL271 **Writing Poems and Stories: An Introductory Workshop**

Credits: 3 Grading Method: Regular, Pass-Fail General Education: DSSP

Introduction to theory and practice of writing fiction and poetry. Emphasis on critical reading of literary models. Exercises and workshop discussions with continual reference to modeling, drafting, and revising as necessary stages in a creative process.

0101	Derek Ellis TuTh 12:30pm - 1:45pm	Seats (Total: 20) KEY 0124
0201	Kiyanna Hill MW 2:00pm - 3:15pm	Seats (Total: 20) KEY 0123
0301	Nicolette Polek TuTh 9:30am - 10:45am	Seats (Total: 20) KEY 0124
FC01	Lindsay Bernal TuTh 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) KEY 0123

ENGL272 **Writing Fiction: A Beginning Workshop**

Credits: 3 | Grading Method: Regular, Pass-Fail | General Education: DSSP

Introduction to theory and practice of writing fiction. Emphasis on critical reading of literary models. Exercises and workshop discussions with continual reference to modeling, drafting, and revising as necessary stages in a creative process.

0101	Kathleen Buckley TuTh 9:30am - 10:45am	Seats (Total: 20) KEY 0125
0201	Jehane Sharah MW 2:00pm - 3:15pm	Seats (Total: 20) KEY 0120
0301	Temima Fruchter TuTh 12:30pm - 1:45pm	Seats (Total: 20) KEY 0123
0401	Maggie Gill TuTh 12:30pm - 1:45pm	Seats (Total: 20) TWS 0214

ENGL273 **Writing Poetry: A Beginning Workshop**

Credits: 3 | Grading Method: Regular, Pass-Fail | General Education: DSSP

Introduction to theory and practice of writing poetry. Emphasis on critical reading of literary models. Exercises and workshop discussions with continual reference to modeling, drafting, and revising as necessary stages in a creative process.

0101	Ayesha Shibli MW 2:00pm - 3:15pm	Seats (Total: 20) KEY 0125
0201	Anna Goodson TuTh 2:00pm - 3:15pm	Seats (Total: 20) KEY 0123

ENGL274 **Creative Writing Through The Eyes of African Americans: A Beginning Workshop**

Credits: 3 | Grading Method: Regular, Pass-Fail | General Education: DSSP

Restriction: Must not have completed ENGL278C, AASP298W, ENGL271, ENGL274, ENGL294, ENGL294N, or AASP274. Also offered as: AASP274. Credit only granted for: ENGL274, AASP274 or AASP298W.

Introduction to theory and practice of writing fiction, drama and poetry, with an emphasis on African American literary models. Critical reading, exercises and workshop discussions with continual reference to modeling, drafting, and revising as necessary stages in a creative process.

0101	Cameron McCary, Dorothy Phaire TuTh 9:30am - 10:45am	Seats (Total: 20) NCC 0120

ENGL275 **Scriptwriting for Theater, Film, and Television**

Credits: 3 | Grading Method: Regular, Pass-Fail | General Education: DSHU, DSSP

Also offered as: ARHU275. Credit only granted for: ENGL278D, ENGL275, ARHU319B, or ARHU275. Formerly: ENGL278D; ARHU319B.

Introduction to the theory and practice of scriptwriting with an opportunity to read, view, evaluate, write, and revise texts meant to be performed. Students will practice writing for the stage, film, and television and also examine selected scripts, performances, and film and television clips as models for their own creative work. Students will complete frequent writing exercises, participate in workshops, and learn to apply scholarship to the analysis and critique of scripts.

Also offered as ARHU275.

0101	Paul Cote TuTh 3:30pm - 4:45pm	Seats (Total: 15) KEY 0119
0102	Paul Cote TuTh 3:30pm - 4:45pm *Restricted to students in the Jimenez-Porter Writers' House.*	Seats (Total: 5) KEY 0119

0201	Heidi Scott	Seats (Total: 20)
	MWF 10:00am - 10:50am	TWS 1106

ENGL278B **Special Topics in Literature; German Romanticism in its European Context**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

ENGL278N **Special Topics in Literature; The Romantic Experience in Europe**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

ENGL278O **Special Topics in Literature; German Romanticism in its European Context**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

ENGL280 **The English Language**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HO General Education: DSHU

Introduction to the structure of English and its historical development with a focus on techniques of linguistic analysis. Major topics include the sound systems of English and its patterns of word formation and sentence structure, and the ways these have changed over time and vary around the world.

0101	Paul Cote	Seats (Total: 30)
	TuTh 12:30pm - 1:45pm	TWS 0236

ENGL282 **How Rhetoric Works: Persuasive Power and Strategies**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HO General Education: DSHU

Examines how persuasion functions and influences our lives and perception, focusing on a variety of contexts: business, politics, media, law, and entertainment. Students learn persuasive and argumentative principles to understand what rhetoric is, how it works, and what it does, and to apply the knowledge to produce effective communication appropriate for their purpose, audience, and context. A wide range of persuasive media, genres, and forms will be studied to help students sharpen how they interpret and practice persuasion.

0101	Joseph Good	Seats (Total: 30)
	MWF 1:00pm - 1:50pm	TWS 0205

ENGL290 **Introduction to Digital Studies**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU, DSSP

Introductory course in digital studies. Surveys contemporary humanities work in digital technologies, including the web and social media and their historical antecedents. Explores design and making as analytical tools alongside reading and writing. Situates digital media within power and politics and develops critical awareness of how media shape society and ethics. Interdisciplinary approaches to creativity, analysis, and technology. While the course will include hands-on practice, no prior experience of programming, designing, or making required other than a willingness to experiment and play.

0101	Kyle Bickoff	Seats (Total: 20)
	TuTh 5:00pm - 6:15pm	HBK 0123

ENGL291 **Writing, Revising, Persuading**

Credits: 3 | Grading Method: Regular | General Education: DSHU, DSSP

Prerequisite: Must have satisfied Fundamental Studies Academic Writing requirement.

Intermediate-level, writing-intensive course for students who have successfully satisfied the Fundamental Studies Academic Writing requirement but wish to hone skills in analyzing and producing rhetorically attuned, well-styled prose. Deeper study of rhetorical theory and its application to a wide variety of arguments and situations. Additional writing practice, techniques of revision, study of effect of stylistic choices. Topics may include argumentation theory, visual rhetoric, stylistic theory, and writing theory.

Contact department for information to register for this course.

ENGL293 **Writing in the Wireless World**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO | General Education: DSHU, DSSP

Recommended: ENGL101. Credit only granted for: ENGL278Z or ENGL293. Formerly: ENGL278Z.

A hands-on exploration of writing at the intersection of technology and rhetoric. Students will learn to read, analyze, and compose the kind of multimodal documents (combining text, image, and sound) that constitute communication in our digital world.

0101	Setsuko Yokoyama MW 2:00pm - 3:15pm	Seats (Total: 22) TWS 0232
FC01	Daniel Kason MW 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 22) TWS 0224

ENGL294 **Persuasion and Cleverness in Social Media**

Credits: 3 Grading Method: Regular General Education: DSHU, DSSP

Prerequisite: Must have satisfied Fundamental Studies Academic Writing requirement.

Exploration of various persuasive media encountered in daily life through the lens of rhetorical and critical theories. Principles of rhetoric and analysis of how persuasion functions across media. Invention of effective multimedia works appropriate to purpose, audience, and context. Concepts from cultural studies used to develop critical awareness about power and ideology and how they influence the way people produce and understand messages. By integration of technology, rhetoric, and cultural studies, students become more critically-rhetorically informed thinkers, authors, and audiences of arguments and culture in the digital age. Writing intensive course. No prior multimedia experience is expected.

0101	Porter Olsen MWF 12:00pm - 12:50pm	Seats (Total: 20) TWS 0232

ENGL296 **Reading and Writing Disability**

Credits: 3 Grading Method: Regular, Pass-Fail General Education: DSHU, DVUP

Rhetoric-based course that locates and analyzes disability in various settings, modes, and texts. Investigates material and cultural effects of the language, stories, and myths of disability. Exploration of the many definitions and frameworks of disability. Disability as dynamic lived experiences, as a political identities, as a rich culture, as socially constructed barriers, and as an oppressed minority group. Social, medical, political, cultural, and personal definitions of disability; how disability is portrayed, controlled, stereotyped, and celebrated.

0101	Cheryl Spinner MWF 11:00am - 11:50am	Seats (Total: 20) TWS 0214

ENGL297 **Introduction to Professional Writing**

Credits: 3 Grading Method: Regular General Education: DSSP

Prerequisite: ENGL101.

Introduction to the rhetorical principles and professional practices of professional writing, particularly the research, writing, communication, analytical, and technological skills needed for the Professional Writing minor. How culture and technology relate to the work of professional writing; design principles and rhetorical moves; digital tools, research skills, and writing strategies of professional writers. Develops skills needed to publish a writing portfolio that showcases students' professional writing competencies and projects your professional writer identities.

0101	Radford Skudrna MW 2:00pm - 3:15pm	Seats (Total: 22) TWS 0224
0201	Gerard Holmes TuTh 2:00pm - 3:15pm	Seats (Total: 22) TWS 0224

ENGL301 **Critical Methods in the Study of Literature**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in English Language and Literature program; or must be in Secondary Educ: English Language Arts program.

"English" means a lot of things. Are you looking for literature, or linguistics? For writing--creative, critical, or professional? For theater, or debate? For film, or even videogames? This gateway course for the English major introduces you to all of these areas and more, as well as to our discipline's unique resources for studying and enjoying them. The English discipline includes three main interpretive fields: Literary and Cultural Studies; Language, Writing, and Rhetoric; and Media Studies. This course brings together the fundamental concepts and methods for reading, viewing, and researching practiced in these fields, launching you into English studies and and helping you to choose the major track that is right for you.

0101	Sara Wilder TuTh 11:00am - 12:15pm	Seats (Total: 20) TWS 3132
0201	Blake Wilder MW 3:30pm - 4:45pm	Seats (Total: 20) TWS 0205
0401	Nathaniel Underland TuTh 12:30pm - 1:45pm	Seats (Total: 20) TWS 3132
0501	Blake Wilder TuTh 2:00pm - 3:15pm	Seats (Total: 20) TWS 3132
0701	Scott Trudell MW 2:00pm - 3:15pm	Seats (Total: 20) TWS 3132

ENGL302 **Medieval Literature in Translation**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Surveys major works of English and continental Middle Ages. Readings may include romance, lyric and drama, Germanic epic, works of Dante, Chretien de Troyes, Jean de Meun, Christine de Pisan, Malory, English and continental mystics.

Contact department for information to register for this course.

ENGL304 **The Major Works of Shakespeare**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

General Education: DSHU

Restriction: Must not have completed ENGL403 or ENGL404.

Representative early, middle, and later works, including comedies, tragedies, histories, and romances. Historical and cultural contexts.

0201	Michael Olmert	Seats (Total: 28)
	MW 3:30pm - 4:45pm	TWS 0201

ENGL305 **Shakespeare and His Contemporaries: An Introduction**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Readings in Shakespeare and contemporaries such as Marlowe, Dekker, Middleton, Jonson, Webster, Chapman, Marston. Elizabethan and Jacobean theatrical and social contexts.

Contact department for information to register for this course.

ENGL310 **Medieval and Renaissance British Literature**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Detailed study of selected major medieval and Renaissance works written in England. Cultural attitudes and historical contexts. May include Beowulf, Anglo-Saxon lyric, drama, sonnets; works of women writers, Chaucer, Spenser, Sidney. Some readings in Middle English.

0101	Thomas Moser	Seats (Total: 28)
	TuTh 9:30am - 10:45am	TWS 0205

ENGL311 **British Literature from 1600 to 1800**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

The culture of seventeenth and eighteenth-century Britain seen through detailed study of selected major texts. Drama, poetry, political writings, and early novels by men and women. Authors may include Donne, Milton, Jonson, Behn, Swift, Pope, Montagu, and Wollstonecraft.

0101	David Simon	Seats (Total: 28)
	TuTh 3:30pm - 4:45pm	TWS 0214

ENGL313 **American Literature**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

A detailed study of selected major texts of American literature from th 17th century to the 20th century. Issues such as race, gender, and regionalism. Authors such as Franklin, Hawthorne, Dickinson, Hemingway, and Morrison.

0201	Susanna Underland	Seats (Total: 28)
	TuTh 3:30pm - 4:45pm	TWS 1107

ENGL329C **Special Topics in Film Studies; Sexuality in the Cinema**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Studies in various periods and genres of film.

Also offered as CMLT398L. Credit will be granted for only one of the following: CMLT398L, CMLT498L, or ENGL329C.

0101	Eugene Robinson	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

ENGL329P **Special Topics in Film Studies; Films of Martin Scorsese**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Studies in various periods and genres of film.

Also offered as FILM359P. Credit granted for ENGL329P or FILM359P. Prerequisite: ENGL245, FILM245, FILM283, or SLLC283; or permission of department.

0101	Marianne Conroy	Seats (Total: 30)
	TuTh 11:00am - 12:15pm	TWS 1106

ENGL329V **Special Topics in Film Studies; Presentations of London in Modern European Literature Film and Fine Art**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Studies in various periods and genres of film.

Contact department for information to register for this course.

ENGL344 **Nineteenth-Century Fiction**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Major British, American, and other fiction writers of the nineteenth century studied in the context of the broad global, intellectual, and artistic interests of the century.

0201	Michael Kolakoski	Seats (Total: 28)
	MW 3:30pm - 4:45pm	TWS 1107

ENGL345 **Twentieth Century Poetry**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must not have completed ENGL446 or ENGL445.

Major British and American poets of the twentieth century.

0101	Joshua Weiner	Seats (Total: 28)
	MW 2:00pm - 3:15pm	TWS 0214

ENGL346 **Twentieth Century Fiction**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Major British, American, and other fiction writers of the twentieth century studied in the context of the broad global, intellectual, and artistic interests of the century.

0201	Michael Olmert	Seats (Total: 28)
	MW 2:00pm - 3:15pm	TWS 0201

ENGL352 **Intermediate Fiction Workshop**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail

Prerequisite: Minimum grade of A- in ENGL271; or minimum grade of A- in ENGL272; or permission of ARHU-English department. Credit only granted for: ENGL396 or ENGL352. Formerly: ENGL396.

A class in the making of fiction. Intensive discussion of students' own fiction. Readings include both fiction and essays about fiction by practicing writers. Writing short critical papers, responding to works of fiction, and the fiction of colleagues, in-class writing exercises, intensive reading, and thinking about literature, in equal parts, and attendance at readings.

0201	Gabrielle Fuentes Tu 3:30pm - 6:00pm	Seats (Total: 15) TWS 3250
0301	Emily Mitchell W 3:30pm - 6:00pm	Seats (Total: 15) TWS 3252

ENGL353 **Intermediate Poetry Workshop**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail

Prerequisite: Minimum grade of A- in ENGL271; or minimum grade of A- in ENGL273; or permission of ARHU-English department. Credit only granted for: ENGL397 or ENGL353. Formerly: ENGL397.

A class in the making of poetry. Intensive discussion of students' own poems. Readings in both poetry and essays about poetry by practicing poets. Writing short critical prose pieces, responding critically to colleagues' poems, in-class and outside writing exercises, memorization, and attendance at poetry readings.

0101	Elizabeth Arnold M 3:30pm - 6:00pm	Seats (Total: 15) TWS 3134

ENGL358D **Special Topics in U.S. Latina/o Literature; Cuban Poetry & Fiction Post-1980**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Topical study of selected works by U.S. Latinx writers.

Contact department for information to register for this course.

ENGL362 **Caribbean Literature in English**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | , D | General Education: DSHU, DVUP

Political and literary traditions that intersect in the fiction, poetry, and drama written in English by Caribbean writers, primarily during the 20th century.

Also offered as LASC348E. Credit granted for ENGL362 or LASC348E.

0201	Merle Collins	Seats (Total: 28)
	TuTh 9:30am - 10:45am	TWS 1107

ENGL368B **Special Topics in the Literature of Africa and the African Diaspora; Blues and African American Folksong**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | , D

Comparisons among the literary traditions in Africa, the Caribbean, and North and South America.

0201	Barry Pearson	Seats (Total: 28)
	TuTh 12:30pm - 1:45pm	TWS 0201

ENGL368D **Special Topics in the Literature of Africa and the African Diaspora; African American Folklore and Literature**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | , D

Comparisons among the literary traditions in Africa, the Caribbean, and North and South America.

0201	Barry Pearson	Seats (Total: 28)
	TuTh 3:30pm - 4:45pm	TWS 0201

ENGL368K **Special Topics in the Literature of Africa and the African Diaspora; The Art of Black Social Movements: Marcus Garvey to Black Lives Matter**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | , D

Comparisons among the literary traditions in Africa, the Caribbean, and North and South America.

0201	Julius Fleming	Seats (Total: 28)
	TuTh 2:00pm - 3:15pm	TWS 0205

ENGL369A **Special Topics in Study Abroad III; The Scene of Reading**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL369B **Special Topics in Study Abroad III; Representing London: The Eighteenth Century I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL369C **Special Topics in Study Abroad III; The Dickens City I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL369D **Special Topics in Study Abroad III; Writing the First World War**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHU, DVCC

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL369E **Special Topics in Study Abroad III; The Crisis of Culture: Literature and Politics 1918-1948**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL369F **Special Topics in Study Abroad III; British Drama from the 1950s to the Present**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL369G **Special Topics in Study Abroad III; Adapting Literature to Screen**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL369H **Special Topics in Study Abroad III; London Stage**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL369K **Special Topics in Study Abroad III; Great Directors**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL369L **Special Topics in Study Abroad III; Angloamerican Travelers in Spain**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL369Q **Special Topics in Study Abroad III; Literature of the Shoah**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL369Z **Special Topics in Study Abroad III; The London Stage**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL373 **Senior Honors Project**

(Perm req)

Credits: 2

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENGL370. Restriction: Must be in English Language and Literature program.

Research and writing of senior honors project. Strongly recommended for students planning graduate work.

0101	Jason Rudy	Seats (Total: 20)
	M 3:30pm - 5:30pm	TWS 2123

ENGL378A **Special Topics in English; Medical Humanities: Science, Rhetoric, and Literature**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Offers sustained attention to notable current themes and approaches in English studies. Topics vary by section and semester.

0101	John Matthews	Seats (Total: 25)
	MWF 1:00pm - 1:50pm	TWS 0221

ENGL378B **Special Topics in English; African American Graphic Novel**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Offers sustained attention to notable current themes and approaches in English studies. Topics vary by section and semester.

Also offered as AASP478C. Credit only granted for ENGL378B or AASP478C.

0101	Blake Wilder	Seats (Total: 28)
	MW 2:00pm - 3:15pm	JMZ 0125

ENGL378C **Special Topics in English; Digital Fiction**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Offers sustained attention to notable current themes and approaches in English studies. Topics vary by section and semester.

0101	Matthew Kirschenbaum	Seats (Total: 25)
	MWF 12:00pm - 12:50pm	TWS 0205

ENGL378E **Special Topics in English; Videogames and Game Studies**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Offers sustained attention to notable current themes and approaches in English studies. Topics vary by section and semester.

Students are encouraged to bring laptops to class meetings.

0101	Andrew Ferguson	Seats (Total: 25)
	MW 3:30pm - 4:45pm	TWS 0214

ENGL379A **Special Topics in Literature; Comparative Black and Native American Literature**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Also offered as CMLT398F. Credit only granted for CMLT398F or ENGL379A.

0101	Chad Infante	Seats (Total: 25)
	TuTh 2:00pm - 3:15pm	TWS 1107

ENGL379V **Special Topics in Literature; Gypsy Culture**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Also offered as CMLT398N. Credit will be granted for only one of the following: CMLT398N, CMLT498N, or ENGL379V.

0101	Eugene Robinson	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

ENGL381 **MGA Legislative Seminar**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: FSPW

Prerequisite: Students who have taken courses with comparable content may contact the department; or ENGL101. Restriction: Permission of ARHU-English department. Additional information: Application required. Contact english@umd.edu for more information.

Prepares students to intern for the Maryland General Assembly. Introduces standard legislative genres and assigns extended practice in researching legislative issues.

Also offered as HONR368A. Credit only granted for one of the following: ENGL381 or HONR368A. Admission to this course is by application only. Click here for more details.

0101	Thomas Lowderbaugh	Seats (Total: 15)
	Tu 3:30pm - 6:00pm	TWS 0232

ENGL384 **Concepts of Grammar**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Introduction to the basic units of grammatical description; motivation for and nature of constituent structure and syntactic categories; fundamental grammatical concepts employed in the teaching and learning of languages.

0101	Michael Israel	Seats (Total: 25)
	TuTh 9:30am - 10:45am	TWS 0236

ENGL385 **English Semantics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The study of meaning in language and language use. Examines how the senses of words and other linguistic constructions are mentally represented, and how they contribute to the construction of meanings in linguistic communication.

0101	Michael Israel	Seats (Total: 25)
	TuTh 11:00am - 12:15pm	TWS 3136

ENGL388A **Writing Internship; Second Life Workshop in African American Literature**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail

Field work in English studies.

Contact department for information to register for this course.

ENGL388D **Writing Internship; Dickinson Electronic Archives**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail

Field work in English studies.

Prerequisite: permission of department. Repeatable to 9 credits.

0101	Martha Nell Smith	Seats (Total: 5)
	Contact instructor or department for details.	

ENGL388P **Writing Internship; Pre-professional Writing Skills Internship**

(Perm req)

Credits: 1-6 Grading Method: Regular General Education: DSSP

Field work in English studies.

Prerequisite: permission of department. Repeatable to 9 credits.

0101	Karen Lewis	Seats (Total: 15)
	Contact instructor or department for details.	

ENGL388T **Writing Internship; Maryland Institute for Technology in the Humanities Internships**

(Perm req)

Credits: 1-3 Grading Method: Regular

Field work in English studies.

Prerequisite: permission of department. Repeatable to 9 credits.

0101	Purdom Lindblad	Seats (Total: 5)
	Contact instructor or department for details.	

ENGL388V **Writing Internship; Undergraduate Teaching Assistants in Writing Programs**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail General Education: DSSP

Field work in English studies.

Prerequisite: permission of department. Repeatable to 12 credits. Contact Lyra Hilliard, lyrahill@umd.edu. Students taking ENGL388V for the first time should register for section 0101 or 0401 for 4 credits. When taking the course again in subsequent semesters, students should register for 2001 or 3001 for 3 credits.

0101	Justin Lohr	Seats (Total: 20)
	W 5:00pm - 6:30pm	TWS 1320
0401	Lyra Hilliard	Seats (Total: 20)
	Th 5:00pm - 6:30pm	TWS 1320
2001	Justin Lohr	Seats (Total: 10)
	Contact instructor or department for details.	
3001	Lyra Hilliard	Seats (Total: 10)
	Contact instructor or department for details.	

ENGL388W **Writing Internship; Writing Center Internship**

(Perm req)

Credits: 1-6 Grading Method: Regular General Education: DSSP

Field work in English studies.

Prerequisite: permission of department. Repeatable to 12 credits. To apply, go to http://www.english.umd.edu/academics/writingcenter/internship Students taking ENGL388W for the first time should register for section 0101 for 4 credits. When taking the course again in subsequent semesters, students should register for 2001.

0101	Thomas Earles M 3:30pm - 6:00pm Contact instructor or department for details. *Students registering for 0101 should register for four credits.*	Seats (Total: 20) TWS 3136
2001	Thomas Earles Contact instructor or department for details.	Seats (Total: 4)

ENGL390 **Science Writing**

Credits: 3 Grading Method: Regular General Education: FSPW

Prerequisite: ENGL101; or students who have taken courses with comparable content may contact the department. Restriction: Must have earned a minimum of 60 credits; and junior standing or higher. Credit only granted for: ENGL390 or ENGL393S. Formerly: ENGL393S.

Specifically designed for students interested in further study in the physical and biological sciences. Exposes students to the conventions of scientific prose in the genres of research articles and proposals. Students learn to accommodate scientific information to general audiences.

Click here for more course information.

0301	Katherine Oneill MWF 11:00am - 11:50am	Seats (Total: 19) LEF 1171
0401	Katherine Oneill MWF 12:00pm - 12:50pm	Seats (Total: 19) TWS 0207
0501	Katherine Oneill MWF 1:00pm - 1:50pm	Seats (Total: 19) TWS 0207
1001	Diana Friedman TuTh 8:00am - 9:15am	Seats (Total: 19) TWS 3136

1101	Diana Friedman TuTh 9:30am - 10:45am	Seats (Total: 19) TWS 3136
1501	Robin Allen-Klein TuTh 3:30pm - 4:45pm	Seats (Total: 19) TWS 1105
1505	Robin Allen-Klein TuTh 5:00pm - 6:15pm	Seats (Total: 19) TWS 0207
1601	Richard Reynnells Tu 6:30pm - 9:10pm	Seats (Total: 19) TWS 0207
1801	Richard Reynnells W 6:30pm - 9:10pm	Seats (Total: 19) TWS 0234
9001	John Matthews Class time/details on ELMs	Seats (Total: 19) ONLINE
9002	John Matthews Class time/details on ELMs	Seats (Total: 19) ONLINE
9003	John Matthews Class time/details on ELMs	Seats (Total: 19) ONLINE

ENGL390H **Science Writing**

Credits: 3 Grading Method: Regular General Education: FSPW

Prerequisite: ENGL101; or students who have taken courses with comparable content may contact the department. Restriction: Must have earned a minimum of 60 credits; and junior standing or higher. Credit only granted for: ENGL390 or ENGL393S. Formerly: ENGL393S.

Specifically designed for students interested in further study in the physical and biological sciences. Exposes students to the conventions of scientific prose in the genres of research articles and proposals. Students learn to accommodate scientific information to general audiences.

0101	Marybeth Shea MWF 9:00am - 9:50am	Seats (Total: 19) TWS 0224
0201	Marybeth Shea MWF 10:00am - 10:50am	Seats (Total: 19) TWS 0224

0301	Marybeth Shea MWF 11:00am - 11:50am	Seats (Total: 19) TWS 0224

ENGL391 **Advanced Composition**

Credits: 3 Grading Method: Regular General Education: FSPW

Prerequisite: ENGL101; or students who have taken courses with comparable content may contact the department. Restriction: Must have earned a minimum of 60 credits.

An advanced composition course which emphasizes constructing written arguments accommodated to real audiences.

Click here for more course information.

0401	Anna Szczepaniec-Bialas MWF 12:00pm - 12:50pm	Seats (Total: 19) TWS 0224
0402	Mark Forrester MWF 12:00pm - 12:50pm	Seats (Total: 19) JMZ 1215
0501	Anna Szczepaniec-Bialas MWF 1:00pm - 1:50pm	Seats (Total: 19) TWS 0224
0601	Martha Thomas MW 2:00pm - 3:15pm	Seats (Total: 19) TWS 0221
0701	Martha Thomas MW 3:30pm - 4:45pm	Seats (Total: 19) TWS 0207
1101	Melanie Faith TuTh 9:30am - 10:45am	Seats (Total: 19) TWS 1105
1201	Melanie Faith TuTh 11:00am - 12:15pm	Seats (Total: 19) TWS 0207
1301	Melanie Faith TuTh 12:30pm - 1:45pm	Seats (Total: 19) TWS 0207
1701	Robert Crane Tu 6:30pm - 9:10pm	Seats (Total: 19) TWS 1106

1901	Mark Fitzgerald Th 6:30pm - 9:10pm	Seats (Total: 19) TWS 0232
6101	Catherine Bayly MF 10:00am - 10:50am Class time/details on ELMs	Seats (Total: 19) ATL 2316 ONLINE
6102	Catherine Bayly MF 11:00am - 11:50am Class time/details on ELMs	Seats (Total: 19) ATL 0201 ONLINE
9001	Kate Wilson Class time/details on ELMs	Seats (Total: 19) ONLINE
9002	Kate Wilson Class time/details on ELMs	Seats (Total: 19) ONLINE
9003	Ann Mason Class time/details on ELMs	Seats (Total: 19) ONLINE
9004	Ann Mason Class time/details on ELMs	Seats (Total: 19) ONLINE
9005	Kate Wilson Class time/details on ELMs	Seats (Total: 19) ONLINE
9006	Kate Wilson Class time/details on ELMs	Seats (Total: 19) ONLINE

ENGL391H **Advanced Composition**

Credits: 3 Grading Method: Regular General Education: FSPW

Prerequisite: ENGL101; or students who have taken courses with comparable content may contact the department. Restriction: Must have earned a minimum of 60 credits.

An advanced composition course which emphasizes constructing written arguments accommodated to real audiences.

For students in the University or departmental Honors program.

Click here for more course information.

0201	Mark Forrester MWF 10:00am - 10:50am	Seats (Total: 19) TWS 1105

ENGL392 **Legal Writing**

Credits: 3 Grading Method: Regular General Education: FSPW

Prerequisite: ENGL101; or students who have taken courses with comparable content may contact the department. Restriction: Must have earned a minimum of 60 credits.

Conventions of legal writing and research. Students learn how to read and write about cases, statutes or other legislation; how to apply legal principles to fact scenarios; and how to present a written analysis for readers in the legal profession. Assignments may include the law-school application essay, case briefs, legal memos, and client letters.

Click here for more course information.

1101	Robin Earnest TuTh 9:30am - 10:45am	Seats (Total: 19) TWS 0224
1201	Robin Earnest TuTh 11:00am - 12:15pm	Seats (Total: 19) TWS 0224
1301	John Kim TuTh 12:30pm - 1:45pm	Seats (Total: 19) JMP 1109
1601	Michael Winett M 6:30pm - 9:10pm	Seats (Total: 19) TWS 0232
1701	Michael Winett Tu 6:30pm - 9:10pm	Seats (Total: 19) TWS 0232
1801	Michael Winett W 6:30pm - 9:10pm	Seats (Total: 19) TWS 0232

ENGL393 **Technical Writing**

Credits: 3 Grading Method: Regular General Education: FSPW

Prerequisite: ENGL101; or students who have taken courses with comparable content may contact the department. Restriction: Must have earned a minimum of 60 credits.

The writing of technical papers and reports.

Click here for more course information.

0001	Patrick Nelson MWF 8:00am - 8:50am	Seats (Total: 19) TWS 0221
0101	Caleb Kriesberg MWF 9:00am - 9:50am	Seats (Total: 19) TWS 0221
0102	Alysia Sawchyn MWF 9:00am - 9:50am	Seats (Total: 19) TWS 1105
0201	Caleb Kriesberg MWF 10:00am - 10:50am	Seats (Total: 19) TWS 1321
0202	Elliot Berger MWF 10:00am - 10:50am	Seats (Total: 19) TWS 0207
0301	Joan Mooney MWF 11:00am - 11:50am	Seats (Total: 19) TWS 0207
0303	Elliot Berger MWF 11:00am - 11:50am	Seats (Total: 19) TWS 0234
0401	Caleb Kriesberg MWF 12:00pm - 12:50pm	Seats (Total: 19) TWS 1105
0403	Elliot Berger MWF 12:00pm - 12:50pm	Seats (Total: 19) TWS 0221
0501	Joan Mooney MWF 1:00pm - 1:50pm	Seats (Total: 19) TWS 0234
0701	Kimberly Banks MW 3:30pm - 4:45pm	Seats (Total: 19) TWS 1105
0801	Kimberly Banks MW 5:00pm - 6:15pm	Seats (Total: 19) TWS 0234
1001	Elizabeth McClure TuTh 8:00am - 9:15am	Seats (Total: 19) TWS 1105
1101	Danuta Hinc TuTh 9:30am - 10:45am	Seats (Total: 19) TWS 0223

1102	Elizabeth McClure TuTh 9:30am - 10:45am	Seats (Total: 19) TWS 0234
1201	Danuta Hinc TuTh 11:00am - 12:15pm	Seats (Total: 19) TWS 0223
1202	Elizabeth McClure TuTh 11:00am - 12:15pm	Seats (Total: 19) TWS 1105
1402	Danuta Hinc TuTh 2:00pm - 3:15pm	Seats (Total: 19) TWS 0223
1505	Peter Rivenberg TuTh 5:00pm - 6:15pm	Seats (Total: 19) TWS 1107
1602	Kelly Cresap M 6:30pm - 9:10pm	Seats (Total: 19) TWS 0207
1603	Patrick Nelson M 6:30pm - 9:10pm	Seats (Total: 19) TWS 0221
1702	Mrim Boutla Tu 6:30pm - 9:10pm	Seats (Total: 19) TWS 0234
1801	Kelly Cresap W 6:30pm - 9:10pm	Seats (Total: 19) TWS 1107
1803	Candace Orsetti W 6:30pm - 9:10pm	Seats (Total: 19) TWS 0230
1901	Peter Grybauskas Th 6:30pm - 9:10pm	Seats (Total: 19) TWS 0234
1902	Joshua Buursma Th 6:30pm - 9:10pm	Seats (Total: 19) TWS 1105
9001	Sheila Lalwani Class time/details on ELMs	Seats (Total: 19) ONLINE
9002	Sheila Lalwani Class time/details on ELMs	Seats (Total: 19) ONLINE

9003	Sheila Lalwani Class time/details on ELMs	Seats (Total: 19) ONLINE
9004	Sheila Lalwani Class time/details on ELMs	Seats (Total: 19) ONLINE
9005	David Miles Class time/details on ELMs	Seats (Total: 19) ONLINE
9006	David Miles Class time/details on ELMs	Seats (Total: 19) ONLINE
9007	David Miles Class time/details on ELMs	Seats (Total: 19) ONLINE
9008	David Miles Class time/details on ELMs	Seats (Total: 19) ONLINE
9009	Michelle Von Euw Class time/details on ELMs	Seats (Total: 19) ONLINE
9010	Michelle Von Euw Class time/details on ELMs	Seats (Total: 19) ONLINE
9011	Michelle Von Euw Class time/details on ELMs	Seats (Total: 19) ONLINE
9012	Phillip Moses Class time/details on ELMs	Seats (Total: 19) ONLINE
9013	Phillip Moses Class time/details on ELMs	Seats (Total: 19) ONLINE
9014	Daniel Saalfeld Class time/details on ELMs	Seats (Total: 19) ONLINE
9015	Daniel Saalfeld Class time/details on ELMs	Seats (Total: 19) ONLINE
9016	Daniel Saalfeld Class time/details on ELMs	Seats (Total: 19) ONLINE

9017	Andrew Delfino Class time/details on ELMs	Seats (Total: 19) ONLINE
9018	Sajeela Yaqub Class time/details on ELMs	Seats (Total: 19) ONLINE
9019	Sajeela Yaqub Class time/details on ELMs	Seats (Total: 19) ONLINE
9020	Daniel Saalfeld Class time/details on ELMs	Seats (Total: 19) ONLINE
9021	Sarah Dammeyer Class time/details on ELMs	Seats (Total: 19) ONLINE
9022	Sarah Dammeyer Class time/details on ELMs	Seats (Total: 19) ONLINE
9023	Sarah Dammeyer Class time/details on ELMs	Seats (Total: 19) ONLINE
9024	Sarah Dammeyer Class time/details on ELMs	Seats (Total: 19) ONLINE

ENGL393H **Technical Writing**

Credits: 3 Grading Method: Regular General Education: FSPW

Prerequisite: ENGL101; or students who have taken courses with comparable content may contact the department. Restriction: Must have earned a minimum of 60 credits.

The writing of technical papers and reports.

Restricted to students in the University or departmental Honors program.

Click here for more course information.

9011	Christopher Crane Class time/details on ELMs	Seats (Total: 19) ONLINE
9012	Christopher Crane Class time/details on ELMs	Seats (Total: 19) ONLINE

ENGL393Q **Technical Writing**

Credits: 3 Grading Method: Regular General Education: FSPW

Prerequisite: ENGL101; or students who have taken courses with comparable content may contact the department. Restriction: Must have earned a minimum of 60 credits.

The writing of technical papers and reports.

3001	Alexandra Calloway F 9:00am - 11:40am	Seats (Total: 19) TWS 3252

ENGL393X **Technical Writing**

(Perm req)

Credits: 3 Grading Method: Regular General Education: FSPW

Prerequisite: ENGL101; or students who have taken courses with comparable content may contact the department. Restriction: Must have earned a minimum of 60 credits.

The writing of technical papers and reports.

Limited to students for whom English is a second language and who have a score below any of the following: SAT Verbal 400, TOEFL 575, CELT 250. Students who have received an "A" in ENGL 101 or its equivalent cannot register for ENGL 393X.

Click here for more course information.

1501	Danuta Hinc TuTh 3:30pm - 4:45pm	Seats (Total: 15) TWS 0223

ENGL394 **Business Writing**

Credits: 3 Grading Method: Regular General Education: FSPW

Prerequisite: ENGL101; or students who have taken courses with comparable content may contact the department. Restriction: Must have earned a minimum of 60 credits.

Intensive practice in the forms of written communication common in the business world-letters, memos, short reports, and proposals. Principles of rhetoric and effective style.

Click here for more course information.

0101	Robert Oliver MWF 9:00am - 9:50am	Seats (Total: 19) TWS 0207
0201	Robert Oliver MWF 10:00am - 10:50am	Seats (Total: 19) TWS 0234

0301	Robert Oliver MWF 11:00am - 11:50am	Seats (Total: 19) TWS 0230
0401	Alexandra Calloway MWF 12:00pm - 12:50pm	Seats (Total: 19) TWS 0234
0402	Radford Skudrna MWF 12:00pm - 12:50pm	Seats (Total: 19) TWS 0230
0501	Radford Skudrna MWF 1:00pm - 1:50pm	Seats (Total: 19) TWS 0230
0601	Anna Szczepaniec-Bialas MW 2:00pm - 3:15pm	Seats (Total: 19) TWS 0230
0701	Ceil Goldberg MW 3:30pm - 4:45pm	Seats (Total: 19) TWS 0230
0801	Ceil Goldberg MW 5:00pm - 6:15pm	Seats (Total: 19) TWS 0230
0802	Thomas Lowderbaugh MW 5:00pm - 6:15pm	Seats (Total: 19) TWS 0232
1201	Adam Lloyd TuTh 11:00am - 12:15pm	Seats (Total: 19) TWS 0234
1301	Adam Lloyd TuTh 12:30pm - 1:45pm	Seats (Total: 19) TWS 0234
1501	Kimberly Banks TuTh 3:30pm - 4:45pm	Seats (Total: 19) TWS 0234
1505	Kimberly Banks TuTh 5:00pm - 6:15pm	Seats (Total: 19) TWS 1105
1506	Erica Cochran TuTh 5:00pm - 6:15pm	Seats (Total: 19) TWS 1106
1508	Tricia Homer TuTh 6:30pm - 7:45pm	Seats (Total: 19) TWS 1107

1701	Jonathan Rick Tu 6:30pm - 9:10pm	Seats (Total: 19) TWS 1105
1902	Carol Cron Th 6:30pm - 9:10pm	Seats (Total: 19) TWS 0207
3001	Ellen Blumner F 9:00am - 11:40am	Seats (Total: 19) TWS 3132
9004	Clare Parsons Class time/details on ELMs	Seats (Total: 19) ONLINE
9005	Clare Parsons Class time/details on ELMs	Seats (Total: 19) ONLINE
9006	Clare Parsons Class time/details on ELMs	Seats (Total: 19) ONLINE
9007	Karen Angeline Class time/details on ELMs	Seats (Total: 19) ONLINE
9008	Karen Angeline Class time/details on ELMs	Seats (Total: 19) ONLINE
9009	Karen Angeline Class time/details on ELMs	Seats (Total: 19) ONLINE
9010	Karen Angeline Class time/details on ELMs	Seats (Total: 19) ONLINE
9011	Pamela Orel Class time/details on ELMs	Seats (Total: 19) ONLINE
9012	Pamela Orel Class time/details on ELMs	Seats (Total: 19) ONLINE
9013	Pamela Orel Class time/details on ELMs	Seats (Total: 19) ONLINE
9014	Pamela Orel Class time/details on ELMs	Seats (Total: 19) ONLINE

9015	Clare Parsons Class time/details on ELMs	Seats (Total: 19) ONLINE
9016	Daune O'Brien Class time/details on ELMs	Seats (Total: 19) ONLINE
SG91	Katherine Robinson TuTh 12:30pm - 1:45pm *Restricted to BMGT-Shady Grove Juniors. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.*	Seats (Total: 19) BLD2 3022
SG92	Holly Smith TuTh 12:30pm - 1:45pm *Restricted to BMGT-Shady Grove Juniors. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.*	Seats (Total: 19) BLD2 3012
SG93	Holly Smith TuTh 11:00am - 12:15pm *Restricted to BMGT-Shady Grove Juniors. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.*	Seats (Total: 19) BLD2 3012
SG95	Joseph Wappel MW 11:00am - 12:15pm *Restricted to BMGT-Shady Grove Juniors. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.*	Seats (Total: 19) BLD2 3012
SG96	Joseph Wappel MW 12:30pm - 1:45pm *Restricted to BMGT-Shady Grove Juniors. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.*	Seats (Total: 19) BLD2 3012
SG97	Katherine Robinson MW 12:30pm - 1:45pm *Restricted to BMGT-Shady Grove Juniors. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.*	Seats (Total: 19) BLD2 3022

SG98	Katherine Robinson MW 9:30am - 10:45am *Restricted to COMM majors at Shady Grove.*	Seats (Total: 19) BLD3 3242

ENGL395 **Writing for Health Professions**

Credits: 3 Grading Method: Regular General Education: FSPW

Prerequisite: ENGL101; or students who have taken courses with comparable content may contact the department. Restriction: Must have earned a minimum of 60 credits.

Focus on accommodating technical material and empirical studies to lay audiences, and helping writers to achieve stylistic flexibility and correctness.

Click here for more course information.

0101	James Goodwin MWF 9:00am - 9:50am	Seats (Total: 19) TWS 0234
0201	James Goodwin MWF 10:00am - 10:50am	Seats (Total: 19) EDU 3233
0301	Justin Lohr MWF 11:00am - 11:50am	Seats (Total: 19) WDS 1131
0401	Michelle Moncrieffe MWF 12:00pm - 12:50pm	Seats (Total: 19) VMH 1107
0501	Justin Lohr MWF 1:00pm - 1:50pm	Seats (Total: 19) TWS 0201
0601	Michael Schmidt MW 2:00pm - 3:15pm	Seats (Total: 19) TWS 1105
0801	Michael Schmidt MW 5:00pm - 6:15pm	Seats (Total: 19) TWS 1105
0901	Michael Schmidt MW 6:30pm - 7:45pm	Seats (Total: 19) TWS 1105
1001	Kevin Wisniewski, Joseph Angelella TuTh 8:00am - 9:15am	Seats (Total: 19) JMZ 0122

1101	Kevin Wisniewski, Joseph Angelella TuTh 9:30am - 10:45am	Seats (Total: 19) JMZ 0122
1201	Michelle Moncrieffe TuTh 11:00am - 12:15pm	Seats (Total: 19) KEY 0125
1301	Kisa Lape, Kevin Wisniewski TuTh 12:30pm - 1:45pm	Seats (Total: 19) TWS 0224
1402	Kisa Lape, Kevin Wisniewski TuTh 2:00pm - 3:15pm	Seats (Total: 19) TWS 0230
1501	Kisa Lape, Kevin Wisniewski TuTh 3:30pm - 4:45pm	Seats (Total: 19) TWS 0224
1505	Nicole Cuffy TuTh 5:00pm - 6:15pm	Seats (Total: 19) TWS 0234
1507	Nicole Cuffy TuTh 6:30pm - 7:45pm	Seats (Total: 19) TWS 1321
1701	Kisa Lape, Kevin Wisniewski Tu 6:30pm - 9:10pm	Seats (Total: 19) TWS 0224

ENGL398A **Topics in Professional Writing; Writing for the Arts**

Credits: 3 Grading Method: Regular General Education: FSPW

Professional writing courses that focus on the audiences, conventions, and genres of particular disciplines, professions, or organizations. Examples include writing for the arts, writing case studies and investigative reports, writing about economics, and writing for non-profit organizations.

Prerequisite: 60 credits and completion of ENGL101 or equivalent. This course satisfies the professional writing requirement. Not open to students who have completed ENGL391A. Credit will be granted for only one of the following: ENGL398A or ENGL391A. Formerly ENGL391A. An advanced composition course which emphasizes writing about the arts.

1001	Caroline Wilkins TuTh 8:00am - 9:15am	Seats (Total: 19) TWS 0234
1101	Caroline Wilkins TuTh 9:30am - 10:45am	Seats (Total: 19) TWS 0207

1601	Dennis Winston M 6:30pm - 9:10pm	Seats (Total: 19) TWS 1106
1701	Dennis Winston Tu 6:30pm - 9:10pm	Seats (Total: 19) JMZ 0118

ENGL398B **Topics in Professional Writing; Writing for Social Entrepreneurship**

Credits: 3 Grading Method: Regular General Education: FSPW

Professional writing courses that focus on the audiences, conventions, and genres of particular disciplines, professions, or organizations. Examples include writing for the arts, writing case studies and investigative reports, writing about economics, and writing for non-profit organizations.

Prerequisite: 60 credits and completion of ENGL101 or equivalent. This course satisfies the professional writing requirement.

0601	Eric Thiel MW 2:00pm - 3:15pm	Seats (Total: 19) TWS 0207
0701	Eric Thiel MW 3:30pm - 4:45pm	Seats (Total: 19) TWS 0234
0801	Eric Thiel MW 5:00pm - 6:15pm	Seats (Total: 19) TWS 1106
1601	Mrim Boutla M 6:30pm - 9:10pm	Seats (Total: 19) TWS 1107
1701	Maurice Boissiere Tu 6:30pm - 9:10pm	Seats (Total: 19) TWS 0201
1901	Roxanne Clements Th 6:30pm - 9:10pm	Seats (Total: 19) TWS 0201

ENGL398C **Topics in Professional Writing; Writing Case Studies and Narratives**

Credits: 3 Grading Method: Regular General Education: FSPW

Professional writing courses that focus on the audiences, conventions, and genres of particular disciplines, professions, or organizations. Examples include writing for the arts, writing case studies and investigative reports, writing about economics, and writing for non-profit organizations.

Prerequisite: 60 credits and completion of ENGL101 or equivalent. This course satisfies the professional writing requirement. An advanced composition course which emphasizes writing cases and investigative reports.

0701	Joshua Buursma MW 3:30pm - 4:45pm	Seats (Total: 19) KEY 0125
0801	Joshua Buursma MW 5:00pm - 6:15pm	Seats (Total: 19) KEY 0125
1507	Joshua Buursma MW 6:30pm - 7:45pm	Seats (Total: 19) KEY 0119
SG91	Joseph Wappel TuTh 9:30am - 10:45am *Registration is restricted to CCJS-Shady Grove students.*	Seats (Total: 19) BLD3 2203
SG92	Joseph Wappel TuTh 12:30pm - 1:45pm *Registration is restricted to CCJS-Shady Grove students.*	Seats (Total: 19) BLD3 3203

ENGL398E **Topics in Professional Writing; Writing about Economics**

Credits: 3 Grading Method: Regular General Education: FSPW

Professional writing courses that focus on the audiences, conventions, and genres of particular disciplines, professions, or organizations. Examples include writing for the arts, writing case studies and investigative reports, writing about economics, and writing for non-profit organizations.

Prerequisite: 60 credits and completion of ENGL101 or equivalent. This course satisfies the professional writing requirement. Not open to students who have completed ENGL394E. Credit will be granted for only one of the following : ENGL398E or ENGL394E. Formerly ENGL394E. A business writing class focusing on writing about economics.

0801	Michael Winett MW 5:00pm - 6:15pm	Seats (Total: 19) TWS 0223

ENGL398L **Topics in Professional Writing; Scholarly Writing in the Humanities**

Credits: 3 Grading Method: Regular General Education: FSPW

Professional writing courses that focus on the audiences, conventions, and genres of particular disciplines, professions, or organizations. Examples include writing for the arts, writing case studies and investigative reports, writing about economics, and writing for non-profit organizations.

Prerequisite: 60 credits and completion of ENGL101 or equivalent. This course satisfies the professional writing requirement. An advanced composition class focusing on the norms and procedures of advanced academic writing.

0301	Mark Forrester MWF 11:00am - 11:50am	Seats (Total: 19) TWS 1105

ENGL398N **Topics in Professional Writing; Writing for Non-Profit Organizations**

Credits: 3 Grading Method: Regular General Education: FSPW

Professional writing courses that focus on the audiences, conventions, and genres of particular disciplines, professions, or organizations. Examples include writing for the arts, writing case studies and investigative reports, writing about economics, and writing for non-profit organizations.

Prerequisite: 60 credits and completion of ENGL101 or equivalent. This course satisfies the professional writing requirement. Not open to students who have completed ENGL394N. Credit will be granted for only one of the following ENGL398N or ENGL394N. Formerly ENGL394N. A busniness writing class focusinog on writing about nonprofits.

0301	Alysia Sawchyn MWF 11:00am - 11:50am	Seats (Total: 19) PLS 1172
0401	Alysia Sawchyn MWF 12:00pm - 12:50pm	Seats (Total: 19) PLS 1172
0601	Rachel Feingold MW 2:00pm - 3:15pm	Seats (Total: 19) TWS 3252
0801	Rachel Feingold MW 5:00pm - 6:15pm	Seats (Total: 19) TWS 0207
1001	David Todd TuTh 8:00am - 9:15am	Seats (Total: 19) TWS 0230
1101	David Todd TuTh 9:30am - 10:45am	Seats (Total: 19) TWS 0230
1201	David Todd TuTh 11:00am - 12:15pm	Seats (Total: 19) TWS 0230
1301	Rebecca Holden TuTh 12:30pm - 1:45pm	Seats (Total: 19) TWS 0232

1401	Rebecca Holden TuTh 2:00pm - 3:15pm	Seats (Total: 19) TWS 0232

ENGL398R **Topics in Professional Writing; Writing Non-Fictional Narratives**

Credits: 3 Grading Method: Regular General Education: FSPW

Professional writing courses that focus on the audiences, conventions, and genres of particular disciplines, professions, or organizations. Examples include writing for the arts, writing case studies and investigative reports, writing about economics, and writing for non-profit organizations.

Prerequisite: 60 credits and completion of ENGL101 or equivalent. This course satisfies the professional writing requirement.

1001	Pamela Gerhardt TuTh 8:00am - 9:15am	Seats (Total: 19) TWS 0232
1101	Pamela Gerhardt TuTh 9:30am - 10:45am	Seats (Total: 19) TWS 0232
1201	Pamela Gerhardt TuTh 11:00am - 12:15pm	Seats (Total: 19) TWS 0232
1401	Stewart Foehl TuTh 2:00pm - 3:15pm	Seats (Total: 19) TWS 0234
1501	Stewart Foehl TuTh 3:30pm - 4:45pm	Seats (Total: 19) KNI 1103
1505	Pamela Gerhardt TuTh 5:00pm - 6:15pm	Seats (Total: 19) TWS 0224

ENGL398V **Topics in Professional Writing; Writing about the Environment**

Credits: 3 Grading Method: Regular General Education: FSPW

Professional writing courses that focus on the audiences, conventions, and genres of particular disciplines, professions, or organizations. Examples include writing for the arts, writing case studies and investigative reports, writing about economics, and writing for non-profit organizations.

Prerequisite: 60 credits and completion of ENGL101 or equivalent. This course satisfies the professional writing requirement. Not open to students who have completed ENGL393E. Credit will be granted for only one of the following ENGL398V or ENGL393E. Formerly ENGL393E.

1201	Ann Mason TuTh 11:00am - 12:15pm	Seats (Total: 19) TWS 1313
1301	Ann Mason TuTh 12:30pm - 1:45pm	Seats (Total: 19) JMZ 3120
1501	Cheryl Spinner TuTh 3:30pm - 4:45pm	Seats (Total: 19) KNI 1105
1701	Shannon Zellars Strohl Tu 6:30pm - 9:10pm	Seats (Total: 19) JMZ 1117

ENGL402 **Chaucer**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Two English courses in literature; or permission of ARHU-English department.

Works read in Middle English. Readings may include Canterbury Tales, Troilus and Criseyde, dream visions, lyrics.

0101	Theresa Coletti TuTh 11:00am - 12:15pm	Seats (Total: 23) TWS 0201

ENGL403 **Shakespeare: The Early Works**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Two English courses in literature; or permission of ARHU-English department.

Close study of selected works from the first half of Shakespeare's career. Generic issues of early histories, comedies, tragedies. Language, theme, dramatic technique, sources, and early modern English social-historical context.

Prerequisite: Two English courses in literature; or permission of ARHU-English department.

0101	David Simon TuTh 5:00pm - 6:15pm	Seats (Total: 23) TWS 0214

ENGL409A **Study Abroad Special Topics IV; Solitude in Life and Letters in Enlightenment Britain**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL409B **Study Abroad Special Topics IV; Shakespeare: The Play and the Book**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL409C **Study Abroad Special Topics IV; Shakespeare's Italian Plays**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL409D **Study Abroad Special Topics IV; Time, Narrative and Culture (Sem A)**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL409E **Study Abroad Special Topics IV; The Revolution Controversy: Politics and Genre**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL409F **Study Abroad Special Topics IV; Grand Tours: Nineteenth Century Adventure Stories for Young Readers and their Twentieth Century Afterlives**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL409G **Study Abroad Special Topics IV; Thomas Hardy and the Victorian Modern**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL409H **Study Abroad Special Topics IV; The Caribbean Novel**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL409I **Study Abroad Special Topics IV; The New York Century: Urban Literary Culture 1900-1999**

Credits: 3-6 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL409L **Study Abroad Special Topics IV; Literature of London**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL409P **Study Abroad Special Topics IV; Phonies, Fakes, Liars and Conmen: Readings in Fact and Fiction**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL412 **Literature of the Seventeenth Century, 1600-1660**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Two English courses in literature; or permission of ARHU-English department.

Works from early Stuart through Interregnum period. Major literary genres in historical contexts. Writers such as Donne, Jonson, Mary Wroth, Bacon, Browne, and Marvell.

0101	Gerard Passannante	Seats (Total: 23)
	TuTh 3:30pm - 4:45pm	TWS 0236

ENGL414 **Milton**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Two English courses in literature; or permission of ARHU-English department.

Poetry and major prose in their social, political, and literary-historical contexts. Special attention to Paradise Lost. Other works may include Samson Agonistes and shorter poems.

Contact department for information to register for this course.

ENGL416 **Literature of the Eighteenth Century, 1700-1750**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Two English courses in literature; or permission of ARHU-English department.

British literary traditions, including the poetry of Pope, the prose of Swift, the correspondence of Montagu, the drama of Gay, and early novels by Defoe, Richardson, and Fielding.

0101	Tita Chico	Seats (Total: 23)
	TuTh 2:00pm - 3:15pm	TWS 1106

ENGL419W **Major British Writers after 1800; James Joyce's Ulysses**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Two writers studied intensively each semester.

Contact department for information to register for this course.

ENGL419X **Major British Writers after 1800; Virginia Woolf (Sem A)**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Two writers studied intensively each semester.

Contact department for information to register for this course.

ENGL419Y **Major British Writers after 1800; Reading William Blake**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Two writers studied intensively each semester.

Contact department for information to register for this course.

ENGL419Z **Major British Writers after 1800; DH Lawrence: Controversy and Legacy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Two writers studied intensively each semester.

Contact department for information to register for this course.

ENGL420 **English Romantic Literature**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Two English courses in literature; or permission of ARHU-English department.

British poetry, drama, fiction, and criticism c.1790 to c.1830, a perio of dramatic social change and revolution in literature, philosophy, the arts, industry, and politics. Authors include Austen, Wordsworth, Coleridge, Keats, Byron, Percy, and Mary Shelley.

Contact department for information to register for this course.

ENGL422 **English Victorian Literature**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Two English courses in literature; or permission of ARHU-English department.

A survey of English literature of the Victorian period. Writers may include Arnold, Browning, Tennyson, Dickens, George Eliot, Carlyle, Ruskin, Newman, and Wilde.

0101	Jason Rudy	Seats (Total: 23)
	MW 2:00pm - 3:15pm	TWS 1106

ENGL422A **English Victorian Literature**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Two English courses in literature; or permission of ARHU-English department.

A survey of English literature of the Victorian period. Writers may include Arnold, Browning, Tennyson, Dickens, George Eliot, Carlyle, Ruskin, Newman, and Wilde.

Contact department for information to register for this course.

ENGL428K **Seminar in Language and Literature; Literary Spinoffs: Rewriting and Reprising the Classics**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Topics will vary each semester. The course will provide a seminar experience in material or methodologies not otherwise available to the major.

Restriction: Junior standing. For ENGL majors only. Course intended primarily for students in English Honors Program. English majors with strong academic records may also apply. Permission from the Director of Honors required.

0101	Edlie Wong TuTh 11:00am - 12:15pm	Seats (Total: 20) TWS 0236

ENGL429 **Independent Research in English**

(Perm req)

Credits: 1-6 Grading Method: Regular

An advanced independent research project for qualified students, supervised by an English faculty member, on a topic not ordinarily covered in available courses.

Prerequisite: ENGL301 and two English courses, excluding Fundamental Studies requirement.

Contact department for information to register for this course.

ENGL433 **American Literature: 1914 to the Present, the Modern Period**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Two English courses in literature; or permission of ARHU-English department.

Modernism, Postmodernism. Writers such as Stevens, Stein, Ellison.

0101	Peter Mallios MW 3:30pm - 4:45pm	Seats (Total: 23) TWS 1106

ENGL439D **Major American Writers after 1865; Dickinson, Whitman, Erotics, and American Poetry**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

An intensive study of a single writer, or a handful of writers, to understand the shifts in the writer's craft and cultural influence, both past and present.

Also offered as LGBT448Y and WMST498Y. Credit granted for ENGL439D, LGBT448Y, or WMST498Y.

0101	Martha Nell Smith	Seats (Total: 23)
	TuTh 12:30pm - 1:45pm	TWS 0205

ENGL439M **Major American Writers after 1865; Major American Writers After 1865**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An intensive study of a single writer, or a handful of writers, to understand the shifts in the writer's craft and cultural influence, both past and present.

Contact department for information to register for this course.

ENGL444 **Feminist Critical Theory**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: WMST200, WMST250, or ENGL250. Also offered as: WMST444. Credit only granted for: ENGL444 or WMST444.

Issues in contemporary feminist thought that have particular relevance to textual studies, such as theories of language, literature, culture, interpretation, and identity.

Contact department for information to register for this course.

ENGL448A **Literature by Women of Color; Caribbean Literature by Women**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Literature by women of color in the United States, Britain, and in colonial and post-colonial countries.

Prerequisite: two English courses in literature or permission of department. Repeatable to 9 credits, if content differs. Also offered as LASC448A and WMST448A. Credit only offered for ENLG448A, LASC448A or WMST448A.

0101	Merle Collins	Seats (Total: 23)
	TuTh 11:00am - 12:15pm	TWS 0221

ENGL455 **The Eighteenth-Century English Novel**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Two English courses in literature; or permission of ARHU-English department.

The origins and development of the British novel, from the late seventeenth century until the beginning of the nineteenth. Questions about what novels were, who wrote them, and who read them. Authors such as Behn, Defoe, Richardson, Fielding, Sterne, Smollett, Burney, Radcliffe, and Austen.

0101	Laura Rosenthal	Seats (Total: 23)
	MW 3:30pm - 4:45pm	TWS 0236

ENGL457 **The Modern Novel**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Two English courses in literature; or permission of ARHU-English department.

Modernism in the novel of the twentieth century. Such writers as Joyce, Lawrence, Murdoch, James, Forster, Faulkner, Hemingway, Fitzgerald, Ellison, Welty, Nabokov and Malamud.

Contact department for information to register for this course.

ENGL458A **Literature by Women after 1800; Gender, Race and Empire in Women's Writing 1780-1900**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected writings by women after 1800.

Contact department for information to register for this course.

ENGL465 **Theories of Sexuality and Literature**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Two lower-level English courses, at least one in literature; or permission of ARHU-English department. Also offered as: LGBT465. Credit only granted for: ENGL465 or LGBT465.

An in-depth study of the ways in which sexuality and sexual difference create or confound the conditions of meaning in the production of literary texts. Attention to psychoanalysis, history of sexuality, feminist theory, and other accounts of sexual identity.

Contact department for information to register for this course.

ENGL466 **Arthurian Legend**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Two English courses in literature; or permission of ARHU-English department.

Development of Arthurian legend in English and continental literature from Middle Ages to twentieth century. All readings in modern English.

0101	Thomas Moser	Seats (Total: 23)
	TuTh 11:00am - 12:15pm	TWS 0205

ENGL468A **Selected Topics in Film Studies; The Scene of Writing**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Advanced studies in various periods and genres of film.

Contact department for information to register for this course.

ENGL468C **Selected Topics in Film Studies; Animation and Cinema**

Credits: 3-9

Grading Method: Regular, Pass-Fail, Audit

Advanced studies in various periods and genres of film.

Also offered as FILM412. Credit only granted for FILM412 or ENGL468C.

0101	Oliver Gaycken	Seats (Total: 25)
	MW 2:00pm - 3:15pm	TWS 0236

ENGL469A **The Craft of Literature: Creative Form and Theory; Poetry**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Examines various forms of poetry and/or fiction, emphasizing the practice of making literary art and the aesthetic and theoretical approaches that define it. Students will practice the elements of literary craft, producing and experimenting with a wide range of forms and conventions in poetry and/or fiction. They will also produce critical work that articulates and contextualizes theoretical approaches to the making of literary art.

Prerequisite: Two English courses in literature; or permission of ARHU- English department.

0101	Elizabeth Arnold	Seats (Total: 20)
	MW 2:00pm - 3:15pm	TWS 0205

ENGL472 **African-American Literature: 1945 to Present**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Two English courses in literature; or permission of ARHU-English department.

Transformation of African-American literatures into modern and postmodern forms. Influenced by World War II and the Civil Rights and Black Power movements, this literature is characterized by conscious attempts to reconnect literary and folk forms, the emergence of women writers, and highly experimental fiction.

Also offered as ENGL472. Credit granted for ENGL472 or AASP478K.

0101	Laura Williams	Seats (Total: 23)
	TuTh 12:30pm - 1:45pm	TWS 0221

ENGL475 **Postmodern Literature**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Two English courses in literature; or permission of ARHU-English department.

The origins and ongoing development of postmodern literature. Aspects o the "postmodern condition," such as the collapse of identity, the erasure of cultural and aesthetic boundaries, and the dissolution of life into textuality. The novel and other genres and media.

Contact department for information to register for this course.

ENGL478O **Selected Topics in English and American Literature before 1800; Body of Frankenstein**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Two English courses in literature or permission of ARHU- English department. Repeatable to 9 credits if content differs.

0201	Orrin Wang	Seats (Total: 20)
	MWF 12:00pm - 12:50pm	TWS 3252

ENGL479N **Selected Topics in English and American Literature after 1800; The Fiction of James Joyce**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Two English courses in literature or permission of ARHU-English department. Repeatable to 9 credits, if content differs.

0101	Brian Richardson	Seats (Total: 23)
	TuTh 3:30pm - 4:45pm	TWS 1106

ENGL479Y **Selected Topics in English and American Literature after 1800; Seminar in Poetry Translation**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Two English courses in literature or permission of ARHU-English department. Repeatable to 9 credits if content differs. Also offered as CMLT679T. Credit granted for ENGL479Y or CMLT679T.

0101	Michael Collier	Seats (Total: 20)
	Tu 3:30pm - 6:00pm	TWS 3132

ENGL479Z **Selected Topics in English and American Literature after 1800; South Asian Literature on the Move**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Two English courses in literature; or pe rmission of ARHU-English department. Repeatable to 9 credits if content differs.

0101	Sangeeta Ray	Seats (Total: 23)
	MW 2:00pm - 3:15pm	TWS 3250

ENGL487 **Foundations of Rhetoric**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: ENGL487 or COMM401.

A seminar examining foundational concepts and approaches in the theory and practice of rhetoric in civic, professional, academic, and interpersonal settings; focusing on key issues in persuasion, argumentation, and eloquence in historical and contemporary contexts.

0101	Sara Wilder	Seats (Total: 20)
	TuTh 2:00pm - 3:15pm	TWS 0201

ENGL489T **Special Topics in Language and Rhetoric; Analyzing Conversation**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics in language and rhetoric, such as discourse analysis, semantics, or cognitive linguistics; comparative rhetoric and rhetorical theory, digital rhetorics, women's and minority rhetorics, or the history of rhetoric.

0101	Linda Coleman	Seats (Total: 20)
	MWF 11:00am - 11:50am	TWS 0201

ENGL492 **Web Authoring**

Credits: 3 Grading Method: Regular, Pass-Fail

Prerequisite: Students must have satisfied Fundamental Studies Academic Writing requirement. Credit only granted for: ENGL488A or ENGL492. Formerly: ENGL488A.

An exploration of the visual dimensions of texts and the skills involved in designing them well. Considers graphic design theory and history from a rhetorical perspective, working to understand and practice the use of symbol systems to express, inform, and advocate. Includes direct experimentation with the principles and techniques of graphic design.

Students are encouraged to bring laptops to class meetings.

0101	Melanie Kill	Seats (Total: 20)
	TuTh 8:00am - 9:15am	TWS 3252

ENGL493 **Advanced Writing Theory and Practice**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Recommended: Satisfactory completion of professional writing requirement. Restriction: Must have earned a minimum of 60 credits.

A rhetorical genre studies approach to understanding the work that texts do in the world. Examines issues of identity, power, and medium as they relate to writing in various contexts. Students analyze the texts, context(s), and social significance of a public, professional, digital, and/or advanced academic genre and produce writing that meets, modifies, and subverts expectations.

Students are encouraged to bring laptops to class meetings.

0101	Melanie Kill	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	TWS 3252

ENGL494 **Editing and Document Design**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENGL393 or ENGL391; or students who have taken courses with comparable content may contact the department.

Principles of general editing for clarity, precision and correctness. Applications of the conventions of grammar, spelling, punctuation and usage, and organization for logic and accuracy. Working knowledge of the professional vocabulary of editing applied throughout the course.

Must have completed Fundamental Studies Professional Writing requirement.

0101	Thibault Raoult TuTh 3:30pm - 4:45pm	Seats (Total: 20) TWS 0207

ENGL495 **Independent Study in Honors**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENGL373 and ENGL370. Restriction: Must be in English Language and Literature program; and candidacy for honors in English.

Completion and presentation of the senior honors project.

Contact department for information to register for this course.

ENGL498 **Advanced Fiction Workshop**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail

An advanced class in the making of fiction. Intensive discussion of students' own fiction. Readings include both fiction and essays about fiction by practicing writers. Writing short critical papers, responding to works of fiction, and to colleagues' fiction, in-class writing exercises, intensive reading, and thinking about literature, in equal parts, and attendance at readings.

Prerequisite: ENGL352 or ENGL396; or permission of department.

0101	Gabrielle Fuentes W 3:30pm - 6:00pm	Seats (Total: 15) TWS 3132
0201	Emily Mitchell Th 3:30pm - 6:00pm	Seats (Total: 15) TWS 3252
0301	Howard Norman M 3:30pm - 6:00pm	Seats (Total: 15) TWS 3252

ENGL499 **Advanced Poetry Workshop**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail

An advanced class in the making of poetry. Intensive discussion of students' own poems. Readings include both poetry and essays about poetry by practicing poets. Writing short critical prose pieces, responding critically to colleagues' poems, in-class and outside writing exercises, and attendance at poetry readings.

Prerequisite: ENGL353; or permission of ARHU-English department. Repeatable to 9 credits if content differs. Formerly: ENGL497.

0101	Joshua Weiner W 3:30pm - 6:00pm	Seats (Total: 15) TWS 3136

ENGL601 **Literary Research and Critical Contexts**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

0101	Theresa Coletti Th 3:30pm - 6:00pm	Seats (Total: 14) TWS 3250

ENGL602 **Critical Theory and Literary Criticism**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

An introduction to critical theory and literary criticism, with an overview of major movements (including formalism, structuralism and poststructuralism, Marxism, psychoanalysis, and feminism). Designed to help graduate students assess the various ways of approaching and writing about literature.

0101	Martha Nell Smith Tu 3:30pm - 6:00pm	Seats (Total: 14) TWS 3134

ENGL607 **Readings in the History of Rhetorical Theory to 1900**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Earlier theories of effective written discourse surveyed historically and as influenced by ethical, technical, and social change.

For Majors Only.

0101	Vessela Valiavitcharska M 3:30pm - 6:00pm	Seats (Total: 14) TWS 3250

ENGL609A **Technologies of Writing; Book Lab**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

ENGL 609 - Technologies of Writing: Readings in the technologies of writing systems, print, and new media.

0101	Kari Kraus W 6:30pm - 9:00pm	Seats (Total: 14) TWS 3134

ENGL611 **Approaches to College Composition**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Prerequisite: Permission of ARHU-English department. Additional information: Required for graduate assistants (optional to other graduate students).

A seminar emphasizing rhetorical and linguistic foundations for the handling of a course in freshman composition.

0101	Jessica Enoch W 12:00pm - 2:30pm	Seats (Total: 14) TWS 3136

ENGL628F **Readings in African American Literature; Race, Decoloniality, and the Afterlives of Slavery**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

0101	Julius Fleming Tu 6:30pm - 9:00pm	Seats (Total: 14) TWS 3134

ENGL668K **Readings in Modern Literary Theory; Introduction to Digital Studies in the Arts and Humanitites**

(Perm req)

Credits: 3-6

Grading Method: Regular, Audit

0101	Andrew Ferguson M 6:30pm - 9:00pm	Seats (Total: 20) TWS 3132

ENGL679 **Professional and Career Mentoring for Master's Students**

(Perm req)

Credits: 1-3

Grading Method: Sat-Fail

Augments advising currently provided by the English Department Graduate Studies Office. Individual professional and career mentoring for MA and MFA students from a faculty member.

Contact department for information to register for this course.

ENGL688 **Poetry Workshop**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Poetry workshop.

0201	Stanley Plumly W 3:30pm - 6:00pm	Seats (Total: 12) TWS 2123

ENGL689 **Fiction Workshop**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Fiction workshop.

0101	Howard Norman W 3:30pm - 6:00pm	Seats (Total: 12) TWS 3250

ENGL699 **Independent Study**

(Perm req)

Credits: 1-3

Grading Method: Regular, Audit

Contact department for information to register for this course.

ENGL702 **Cultures of Theory**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

An exploration of the socio-historic, material, and cultural contexts o various theoretical practices and traditions.

Also offered as CMLT679K. Credit only granted for ENGL702 or CMLT679K.

0101	Scott Trudell, Orrin Wang W 3:30pm - 6:00pm	Seats (Total: 9) TWS 3134

ENGL729G **Seminar in Eighteenth-Century Literature; Technologies of Wonder: Eighteenth-Century Literature and Science**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

0101	Tita Chico Th 6:30pm - 9:00pm	Seats (Total: 11) TWS 3134

ENGL748L **Seminar in American Literature; Developments in the 19th-Century American Novel**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

0101	Robert Levine M 6:30pm - 9:00pm	Seats (Total: 11) TWS 3134

ENGL749D **Studies in Twentieth-Century Literature; James Joyce and Virginia Woolf: The Major Fiction**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

0101	Brian Richardson Th 6:30pm - 9:00pm	Seats (Total: 11) TWS 3136

ENGL749F **Studies in Twentieth-Century Literature; Asylum Fiction, Fiction of Asylum**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

0101	Sangeeta Ray M 3:30pm - 6:00pm	Seats (Total: 11) TWS 3132

ENGL798B **Critical Theory Colloquium**

(Perm req)

Credits: 1 Grading Method: Regular, Audit

An intensive advanced exploration of current problems and issues in critical theory.

0101	Christina Walter Contact instructor or department for details.	Seats (Total: 10)

ENGL798D **Critical Theory Colloquium; Digital Studies**

(Perm req)

Credits: 1 Grading Method: Regular, Audit

An intensive advanced exploration of current problems and issues in critical theory.

Class meets in TWS 3136 on the following dates: 9/8, 10/6, 11/3, 12/8.

0101	Matthew Kirschenbaum	Seats (Total: 20)
	F 3:00pm - 5:00pm	Location: TBA

ENGL799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

ENGL809 **Academic Publishing Workshop**

(Perm req)

Credits: 1-2 Grading Method: Sat-Fail

A workshop for the preparation of articles of other critical writing fo publication in academic journals or other professional venues.

0101	Kellie Robertson	Seats (Total: 12)
	Contact instructor or department for details.	

ENGL878 **Pedagogical Mentoring for Doctoral Students**

(Perm req)

Credits: 1-3 Grading Method: Sat-Fail

Pedagogical mentoring by roster faculty members for graduate students teaching 200-level literature courses.

Contact department for information to register for this course.

ENGL879 **Professional Mentoring for Doctoral Students**

(Perm req)

Credits: 1-3 Grading Method: Sat-Fail

Augments advising currently provided by the English Department Graduate Studies Office. Individual professional and career mentoring for PhD students from a faculty member.

Contact department for information to register for this course.

ENGL898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular

Pedagogical mentoring by roster faculty members for graduate students teaching 200-level literature courses.

Contact department for information to register for this course.

ENGL899 **Doctoral Dissertation Research**

(Perm req) Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

ENMA Engineering, Materials Fall 2018

ENMA150 **Materials of Civilization**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: PS General Education: DSNS, SCIS

The discovery of new materials has shaped history and built civilizations. The utilization, properties and production techniques of materials from the Bronze Age up through modern times and into the future will be traced. These materials are explained by considering their atomic structure, the binding forces between atoms and their arrangement, and how controlling the structure controls the materials properties.

0101	Robert Briber TuTh 3:30pm - 4:45pm W 2:00pm - 2:50pm	Seats (Total: 40) CHE 2108 CHE 2136	 Discussion
0102	Robert Briber TuTh 3:30pm - 4:45pm Th 11:00am - 11:50am	Seats (Total: 40) CHE 2108 KEB 2111	 Discussion

ENMA180 **Materials Science and Engineering: The Field and the Future**

Credits: 1 Grading Method: Regular

Restriction: Must be in a major in ENGR-A. James Clark School of Engineering.

Overview of the profession and the components of the Materials Science and Engineering program. Students will become familiar with the departmental faculty, areas of specialization within MSE, professional society student chapter, research opportunities and other resources available to students.

0101	Isabel Lloyd M 4:00pm - 4:50pm	Seats (Total: 30) PHY 4221

ENMA300 **Introduction to Materials Engineering**

(Perm req) Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENES100; and permission of ENGR-Materials Science & Engineering department. Corequisite: MATH241. Recommended: PHYS261 and PHYS260. Also offered as: ENME382. Credit only granted for: ENMA300 or ENME382.

Structure of materials, chemical composition, phase transformations, corrosion and mechanical properties of metals, ceramics, polymers and related materials. Materials selection in engineering applications.

0101	Liyang Dai-Hattrick TuTh 11:00am - 12:15pm	Seats (Total: 30) CHE 2110	
0201	Liyang Dai-Hattrick TuTh 9:30am - 10:45am *For students majoring in Materials Science and Engineering.*	Seats (Total: 89) KEB 1110	
0301	Patrick McCluskey MWF 10:00am - 10:50am	Seats (Total: 30) CHE 2110	

ENMA312 **Experimental Methods in Materials Science**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENMA300. Corequisite: ENMA460. Restriction: Junior standing or higher.

Introduction to experimental methods in materials characterization; synthesis of colloidal nanoparticles; X-ray diffraction and light scattering; optical microscopy; thermal conductivity and expansion; electrical measurements; heat capacity; computational materials design.

0101	Audaldo Ponce Tu 2:00pm - 3:15pm M 9:00am - 11:50am	Seats (Total: 10) KEB 1135 KEB 1135	 Lab
0102	Audaldo Ponce Tu 2:00pm - 3:15pm W 9:00am - 11:50am	Seats (Total: 10) EGR 3106 KEB 1135	 Lab

ENMA362 **Mechanical Properties**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENMA300. Restriction: Junior standing or higher; and permission of ENGR-Materials Science & Engineering department.

Overview of Mechanical Behavior, Elastic Behavior, Dislocations, Plastic Deformation, Strengthening of Crystalline Materials, Composite Materials, High Temperature Deformation of Crystalline Materials, Permanent Deformation of Noncrystalline Materials, Tensile Fracture at Low Temperatures, Engineering Aspects of Fracture, High Temperature Fracture, Fatigue, and Experimental determination of Mechanical Properties including Hardness of Metals and Strength of Metals, Polymers, Ceramics and Composites.

For ENMA majors only.

0101	Timothy Foecke MWF 12:00pm - 12:50pm Tu 9:00am - 11:00am	Seats (Total: 22) PHY 1204 KEB 1135	 Lab
0102	Timothy Foecke MWF 12:00pm - 12:50pm Th 9:00am - 11:00am	Seats (Total: 22) PHY 1204 KEB 1135	 Lab

ENMA440 **Nano Plasma Processing of Materials**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of ENGR-Materials Science & Engineering department. Credit only granted for: ENMA440, ENMA489P, ENMA640, or ENMA698P. Formerly: ENMA489P.

Sustaining mechanisms of plasmas are covered, especially low-pressure electrical gas discharges, fundamental plasma physics, sheath formation, electric and magnetic field effects, plasma-surface interactions in chemically reactive systems, plasma diagnostic techniques and selected industrial applications of low pressure plasmas.

0101	Gottlieb Oehrlein TuTh 3:30pm - 4:45pm	Seats (Total: 25) EGR 2154	

ENMA441 **Characterization of Materials**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENMA300. Restriction: Permission of ENGR-Materials Science & Engineering department; and senior standing. Credit only granted for: ENMA489T or ENMA441. Formerly: ENMA489T.

Techniques to characterize the properties of materials whose characteristic dimensions range from nanometers to macroscopic. These include conventional crystalline and noncrystalline materials, with a special attention to materials of current technological interest. The course will include recent results from the scientific literature.

0101	John Cumings	Seats (Total: 35)
	TuTh 12:30pm - 1:45pm	CHE 2136

ENMA460 **Physics of Solid Materials**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS271, PHYS270, and MATH241. Restriction: Junior standing or higher; and must be in Engineering: Materials Science program. Also offered as: PHYS431. Credit only granted for: ENMA460 or PHYS431.

Classes of materials; introduction to basic ideal and real materials' behavior including mechanical, electrical, thermal, magnetic and optical responses of materials; importance of microstructure in behavior. One application of each property will be discussed in detail.

0101	Ichiro Takeuchi	Seats (Total: 50)
	MW 5:00pm - 6:15pm	CHE 2108

ENMA462 **Smart Materials**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of ENGR-Materials Science & Engineering department. Credit only granted for: ENMA462 or ENMA489B. Formerly: ENMA489B.

A fundamental understanding will be provided as it relates to the following topics: ferroic materials, ferromagnets, ferroelectric materials, shape memory alloys and multiferroic materials that are simultaneously ferromagnetic and ferroelectric. The ferroic properties will be discussed on an atomic, nano- and micro-scales so that actual and potential applications on those scales become clear. Examples of those applications will be presented.

0101	Manfred Wuttig	Seats (Total: 22)
	TuTh 3:30pm - 4:45pm	CHE 2136

ENMA466 **Advanced Materials Fabrication Laboratory**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENMA465; and permission of ENGR-Materials Science & Engineering department.

This course allows students an opportunity to study advanced materials systems in depth through a combination of lectures and hands-on laboratory experiments. Students will be trained in materials processing and characterization techniques. Each student will fabricate materials and devices in our state-of-the-art nanofabrication clean room facility (Fablab), as well as evaluate them using a variety of characterization techniques.

0101	Gary Rubloff W 10:00am - 11:30am Tu 12:30pm - 3:30pm	Seats (Total: 4) EGR 3114 KEB 2300	 Lab
0102	Gary Rubloff W 10:00am - 11:30am M 9:00am - 12:00pm	Seats (Total: 4) EGR 3114 KEB 2300	 Lab
0103	Gary Rubloff W 10:00am - 11:30am F 12:30pm - 3:30pm	Seats (Total: 4) EGR 3114 KEB 2300	 Lab

ENMA471 **Kinetics, Diffusion and Phase Transformations**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in ENMA461. Restriction: Junior standing or higher; or permission of ENGR-Materials Science & Engineering department.

Fundamentals of diffusion, the kinetics of reactions including nucleation and growth and phase transformations in materials.

0101	Raymond Phaneuf TuTh 11:00am - 12:15pm	Seats (Total: 49) CHE 2118

ENMA472 **Additive Manufacturing of Materials Course Information**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENMA300. Restriction: Must be in Engineering: Materials Science program. Credit only granted for: ENMA472 or ENMA672.

Additive manufacturing approaches for metals, ceramics and polymers will be explored in terms of manufacturability and how processing parameters affect microstructure and properties. The course will include projects, including a Terrapin Works project to design and build a part, to develop an understanding of the current state of additive manufacturing, its future promise and its limitations.

0101	Isabel Lloyd	Seats (Total: 26)
	TuTh 5:00pm - 6:15pm	CHE 2136

ENMA475 **Fundamentals of Diffraction Techniques in Materials Science**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH246, PHYS270, and PHYS271. Restriction: Permission of ENGR-Materials Science & Engineering department. Credit only granted for: ENMA475 or ENMA489M. Formerly: ENMA489M.

This course looks at the advanced methods of x-ray scattering/diffraction available thanks to the more powerful sources available to us. The availability of these sources enables us to study liquid crystals, polymers, nanomaterials, quasiorganized materials (including nano) and disordered materials.

0101	Luz Martinez-Miranda	Seats (Total: 20)
	TuTh 9:30am - 10:45am	CHE 2136

ENMA484 **Fundamentals of Finite Element Modeling**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of ENGR-Materials Science & Engineering department. Credit only granted for: ENMA484 or ENMA489F. Formerly: ENMA489F.

A brief review of mechanical behavior of materials, introduction to Finite Element Modeling (FEM), and procedures for predicting mechanical behavior of materials by FEM using computer software (at present ANSYS). The FEM procedures include, setting up the model, mesh generation, data input and interpretation of the results.

0101	Sreeramamurthy Ankem	Seats (Total: 30)
	MWF 2:00pm - 2:50pm	EGR 3106

ENMA486 **Seminar in Materials Science and Engineering**

(Perm req)

Credits: 1 Grading Method: Regular

Restriction: Must be in Engineering: Materials Science program.

Current research in materials science and engineering and related fields. The lectures are presented by scientists and engineers from academia, national laboratory, US government, etc., in the format of seminars.

0101	Luz Martinez-Miranda, Liangbing Hu F 1:00pm - 2:30pm	Seats (Total: 5) CHE 2108

ENMA487 **Capstone Preparation**

(Perm req)

Credits: 1 Grading Method: Regular

Restriction: Must be in Engineering: Materials Science program; and senior standing; and permission of ENGR-Materials Science & Engineering department.

In preparation for the senior level design course, students will do background research and develop white papers from which teams will form around short listed design projects. The projects should focus on a society, industry, military or technological based problem in Materials Science and Engineering leading to a design and strategy to address the problem in the following course, ENMA 490. The course will include written and oral presentations of the white papers and team proposals.

0101	Raymond Phaneuf W 1:00pm - 1:50pm	Seats (Total: 40) EGR 0135

ENMA495 **Polymeric Engineering Materials I**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENMA300. Restriction: Permission of ENGR-Materials Science & Engineering department.

Study of polymeric engineering materials and the relationship to structural type. Elasticity, viscoelasticity, anelasticity and plasticity of single and multiphase materials. Emphasis is on polymetric materials.

0101	Mohamad Al-Sheikhly MW 3:30pm - 4:45pm	Seats (Total: 25) EGR 1102

ENMA499 **Senior Laboratory Project**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Students work with a faculty member on an individual laboratory project in one or more of the areas of engineering materials. Students will design and carry out experiments, interpret data and prepare a comprehensive laboratory report.

0101	Gary Rubloff Contact instructor or department for details.	Seats (Total: 6)

ENMA626 **Fundamentals of Failure Mechanisms**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Restriction: Permission of ENGR-Materials Science & Engineering department. Also offered as: ENRE600. Credit only granted for: ENMA626, ENMA698M, ENMA698R, or ENRE600. Formerly: ENMA698M and ENMA698R.

Advanced failure mechanisms in reliability engineering wiil be taught from a basic materials and defects point of view. The methods of predicting the physics of failure of devices, materials, components and systems are reviewed. The main emphasis will be given to basic degradation mechanisms through understanding the physics, chemistry, and mechanics of such mechanisms. Mechanical failures are introduced through understanding fatigue, creep and yielding in materials, devices and components. The principles of cumulative damage and mechanical yielding theory are taught. The concepts of reliability growth, accelerated life testing, environmental testing are introduced. Physical, chemical and thermal related failures are introduced through a basic understanding of degradation mechanisms such as diffusion, electromigration, defects and defect migration. The failure mechanisms in basic material types will be taught. Failure mechanisms observed in real electronic devices and electronic packaging will also be presented. Problems related to manufacturing, and microelectronics will be analyzed. Mechanical failures are emphasized from the point of view of complex fatigue theory.

0101	Aristos Christou	Seats (Total: 5)
	M 1:00pm - 3:40pm	JMP 2217

ENMA640 **Advanced Nano Processing of Materials with Plasma**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Restriction: Permission of ENGR-Materials Science & Engineering department. Credit only granted for: ENMA440, ENMA489P, ENMA698P, or ENMA640. Formerly: ENMA698P.

Plasmas are used to control the micro-and Nanoscale level structure of materials including patterning at the micro-and nanoscale level using plasma etching techniques. The course establishes the scientific understanding required for the efficient production of nano-structure using plasma techniques.

0101	Gottlieb Oehrlein	Seats (Total: 10)
	TuTh 3:30pm - 4:45pm	EGR 2154

ENMA650 **Nanometer Structure of Materials**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Prerequisite: ENMA460; or students who have taken courses with comparable content may contact the department. And permission of ENGR-Materials Science & Engineering department.

The basic concepts required for understanding nanostructured materials and their behavior will be covered. Topics covered include the structural aspects of crystalline and amorphous solids and relationships to bonding types, point and space groups. Summary of diffraction theory and practice. The reciprocal lattice. Relationships of the microscopically measured properties to crystal symmetry. Structural aspects of defects in crystalline solids.

0101	Daniel Josell	Seats (Total: 26)
	MW 5:00pm - 6:15pm	JMP 1109

ENMA660 **Thermodynamics in Materials Science**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Corequisite: ENMA650. Restriction: Permission of ENGR-Materials Science & Engineering department.

Thermodynamics of engineering solids. Thermal, diffusional and mechanical interactions in macroscopic systems. Systems in thermal contact, systems in thermal and diffusive contact, systems in thermal and mechanical contact.

0101	Oded Rabin	Seats (Total: 25)
	MW 3:30pm - 4:45pm	ATL 2316

ENMA662 **Advanced Smart Materials**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of ENGR-Materials Science & Engineering department.

This course will cover the three ferroic materials, ferromagnetic, ferroelectric, and ferroelastic (also known as Shape Memory Alloy, SMA) as well as materials that are simultaneously ferromagnetic and ferroelectric etc. Their similarities and differences will be identified and their atomic level and crystal structure examined. Phase transformations are very important and will be treated in some detail. Applications, e.g. permanent magnets, electronic magnetic materials, digital storage elements, actuators and sensors as well as SMAs for vision glasses, self-adjusting valves and the like will be covered.

0101	Manfred Wuttig	Seats (Total: 10)
	TuTh 3:30pm - 4:45pm	CHE 2136

ENMA672 **Additive Manufacturing of Materials**

Credits: 3 Grading Method: Regular

Restriction: Must be in one of the following programs (ENGR: MS/PhDMaterials Science and Engineering (Doctoral); ENGR: MS/PhDMaterials Science and Engineering (Master's)). Also offered as: ENMA472. Credit only granted for: ENMA472 or ENMA672.

Additive manufacturing approaches for metals, ceramics and polymers will be explored in terms of manufacturability and how processing parameters affect microstructure and properties. The course will include projects, including a Terrapin Works project to design and build a part, to develop an understanding of the current state of additive manufacturing, its future promise and its limitations.

0101	Isabel Lloyd	Seats (Total: 5)
	TuTh 5:00pm - 6:15pm	CHE 2136

ENMA680 **Determination of Structure, Chemical Composition and Defects in Materials**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENMA650. Restriction: Permission of ENGR-Materials Science & Engineering department.

Basic principles of electron microscopy theory, electron diffraction, and imaging theory. The electron beam sample interaction that gives rise to different signals is related to the structural and compositional information that is obtained from a sample using a TEM. The most common TEM techniques for structural characterization of a sample, namely, electron diffraction, bright/dark field imaging, and high resolution lattice imaging are discussed. Compositional information obtained from x-ray fluorescence and electron energy loss as well as the resolution of these techniques is also covered. A description of techniques used to study magnetic materials is also presented.

0101	Lourdes Salamanca-Riba	Seats (Total: 21)
	TuTh 3:30pm - 4:45pm	PHY 4222

ENMA681 **Diffraction Techniques in Materials Science**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of ENGR-Materials Science & Engineering department.

Advanced methods of x-ray scattering/diffraction available thanks to the more powerful sources available to us. The availability of these sources enables us to study liquid crystals, polymers, nanomaterials, quasiorganized materials (including nano) and disordered materials. We will consider scattering/diffraction from the electronic level and build up to the molecular level.

0101	Luz Martinez-Miranda	Seats (Total: 15)
	TuTh 9:30am - 10:45am	CHE 2136

ENMA683 **Structural Determination Laboratory**

(Perm req)

Credits: 1

Grading Method: Regular, Audit

Restriction: Permission of ENGR-Materials Science & Engineering department. Credit only granted for: ENMA698L or ENMA683. Formerly: ENMA698L.

The operation of an electron microscope is covered. TEM techniques that are used to characterize the structure, defects and composition of a sample are presented and used to study a variety of materials. These techniques are: electron diffraction patterns, bright/dark field imaging, high resolution lattic imaging and energy dispersive x-ray spectroscopy. Also covers different sample preparation techniques for TEM. The goal is that the students become independent users of the TEM.

0101	Lourdes Salamanca-Riba Th 9:30am - 12:30pm	Seats (Total: 5) KEB 1237	Lab
0201	Lourdes Salamanca-Riba F 2:00pm - 5:00pm	Seats (Total: 5) KEB 1237	Lab

ENMA684 **Advanced Finite Element Modeling**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Restriction: Permission of ENGR-Materials Science & Engineering department. Credit only granted for: ENMA684 or ENMA698I. Formerly: ENMA698I.

A brief review of mechanical behavior of materials, introduction to Finite Element Modeling (FEM), and procedures for predicting mechanical behavior of materials by FEM using computer software (at present ANSYS). The FEM procedures include, setting up the model, mesh generation, data input and interpretation of the results.

0101	Sreeramamurthy Ankem MWF 2:00pm - 2:50pm	Seats (Total: 10) EGR 3106	

ENMA688 **Seminar in Materials Science and Engineering**

Credits: 1

Grading Method: Regular, Audit

Current research in materials science and engineering and related fields.

0101	Ichiro Takeuchi, Luz Martinez-Miranda F 1:00pm - 2:30pm	Seats (Total: 38) CHE 2108	

ENMA689T **Special Topics in Engineering Materials; Thin Film Technologies**

Credits: 3 Grading Method: Regular, Audit

0101	Christopher Richardson	Seats (Total: 15)
	TuTh 5:00pm - 6:15pm	CHE 2140

ENMA698 **Special Problems in Materials Science and Engineering**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Individual, supervised study in materials science and engineering.

Contact department for information to register for this course.

ENMA797 **Independent Study**

Credits: 3 Grading Method: Regular, Audit

This course is designed to provide students with a directed independent study course in order to prepare the scholarly paper required for the master's degree without thesis degree option.

0101	Ichiro Takeuchi	Seats (Total: 5)
	Contact instructor or department for details.	

ENMA799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

ENMA898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

ENMA899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

ENME Engineering, Mechanical Fall 2018

ENME201 **Careers in Mechanical Engineering**

Credits: 1 Grading Method: Sat-Fail

The Mechanical Engineering Curriculum, Career Paths. Research areas in the Mechanical Engineering Department. The Mechanical Engineering Profession.

0101	Gary Pertmer Th 12:30pm - 1:30pm	Seats (Total: 65) EGR 1202	

ENME202 **Computing Fundamentals for Engineers**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Corequisite: Must be concurrently enrolled in MATH141. Restriction: Permission of ENGR-Mechanical Engineering department. Credit only granted for: ENAE202 or ENME202.

Introduction to computational tools for the solution of engineering problems. C++ & MATLAB programming including branching and loops, functions, file handling, arrays, and data structures. Students will be introduced to object-oriented programming, basic computing, algorithms, and principles of software engineering.

0101	Johan Larsson MW 11:00am - 11:50am F 8:00am - 9:50am	Seats (Total: 42) BRB 1101 KEB 2111	Lab
0102	Johan Larsson MW 11:00am - 11:50am Th 3:00pm - 4:50pm	Seats (Total: 42) BRB 1101 KEB 2111	Lab
0103	Johan Larsson MW 11:00am - 11:50am Th 3:00pm - 4:50pm	Seats (Total: 30) BRB 1101 EGR 0312	Lab
0106	Johan Larsson MW 11:00am - 11:50am W 3:00pm - 4:50pm	Seats (Total: 42) BRB 1101 KEB 2111	Lab
0107	Johan Larsson MW 11:00am - 11:50am Th 5:00pm - 6:50pm	Seats (Total: 30) BRB 1101 EGR 0312	Lab

ENME208 **Introduction to Automotive Engineering and Design**

(Perm req)

Credits: 2 Grading Method: Regular

Selected concepts in automotive engineering and design at the introductory level utilizing the Terps Racing Baja SAE student project as a learning instrument. This class compliments ENME408, Automotive Design, which focuses on the Terps Racing Formula SAE car.

0101	Scott Schmidt Tu 6:30pm - 7:30pm Th 6:30pm - 8:30pm	Seats (Total: 10) JMP 1215 JMP 1215	 Discussion

ENME272 **Introduction to Computer Aided Design**

(Perm req)

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENES100; and must have completed or be concurrently enrolled in MATH141. Restriction: Permission of ENGR-Mechanical Engineering department. Credit only granted for: ENME 414 or ENME272.

Fundamentals of CAD, using solid modeling packages (Pro/E, SolidWorks, and Autodesk Inventor). Two and three dimensional drawing. Dimensioning and specifications. Introduction of CAD based analysis tools. Students will complete a design project.

0101	Mohammad Fazelpour M 8:00am - 9:50am	Seats (Total: 42) KEB 2111
0201	Mohammad Fazelpour W 8:00am - 9:50am	Seats (Total: 42) KEB 2111
0301	Jarred Heigel F 1:00pm - 2:50pm	Seats (Total: 40) KEB 2111
0401	Jason Fox Th 8:00am - 9:50am	Seats (Total: 42) KEB 2111
0501	Mohammad Fazelpour Tu 8:00am - 9:50am	Seats (Total: 42) KEB 2111

ENME331 **Fluid Mechanics**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENES232 and ENES221. Also offered as: BIOE331. Credit only granted for: BIOE331 or ENME331.

Principles of fluid mechanics. Mass, momentum and energy conservation. Hydrostatics. Control volume analysis. Internal and external flow. Boundary layers. Modern measurement techniques. Computer analysis. Laboratory experiments.

0101	Siddhartha Das, James Duncan, Amir Riaz, Kenneth Kiger	Seats (Total: 30)	
	MW 12:00pm - 12:50pm Tu 1:00pm - 2:50pm	EGR 1202 KEB 1200	Lab
0102	Siddhartha Das, James Duncan, Kenneth Kiger, Amir Riaz	Seats (Total: 30)	
	MW 12:00pm - 12:50pm W 1:00pm - 2:50pm	EGR 1202 JMP 1109	Lab
0103	Kenneth Kiger, James Duncan, Siddhartha Das, Amir Riaz	Seats (Total: 30)	
	MW 12:00pm - 12:50pm Th 1:00pm - 2:50pm	EGR 1202 KEB 1200	Lab
0105	Kenneth Kiger, Siddhartha Das, Amir Riaz, James Duncan	Seats (Total: 30)	
	MW 12:00pm - 12:50pm Tu 3:00pm - 4:50pm	EGR 1202 CHE 2118	Lab
0106	Siddhartha Das, Amir Riaz, James Duncan, Kenneth Kiger	Seats (Total: 30)	
	MW 12:00pm - 12:50pm W 3:00pm - 4:50pm	EGR 1202 JMP 1109	Lab

ENME332 **Transfer Processes**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENME331.

The principles of heat transfer. Conduction in solids. Convection. Radiation. Modern measurement techniques. Computer analysis.

0101	Marino diMarzo, Amir Riaz	Seats (Total: 39)	
	MW 9:00am - 9:50am Tu 1:00pm - 2:50pm	EGR 1202 JMP 2202	Lab

0102	Amir Riaz, Marino diMarzo MW 9:00am - 9:50am W 1:00pm - 2:50pm	Seats (Total: 39) EGR 1202 JMP 2202	 Lab
0103	Amir Riaz, Marino diMarzo MW 9:00am - 9:50am Th 1:00pm - 2:50pm	Seats (Total: 39) EGR 1202 JMP 2202	 Lab
0104	Marino diMarzo, Amir Riaz MW 9:00am - 9:50am F 1:00pm - 2:50pm	Seats (Total: 39) EGR 1202 JMP 2202	 Lab

ENME350 **Electronics and Instrumentation I**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: PHYS271 and PHYS270.

Modern instrumentation. Basic circuit design, standard microelectronic circuits. Digital data acquisition and control. Signal conditioning. Instrumentation interfacing. Designing and testing of analog circuits. Laboratory experiments.

0101	Jungho Kim MW 8:00am - 8:50am M 1:00pm - 2:50pm	Seats (Total: 40) BRB 1101 EGR 3108	 Lab
0102	Jungho Kim MW 8:00am - 8:50am Th 1:00pm - 2:50pm	Seats (Total: 40) BRB 1101 EGR 3108	 Lab
0103	Jungho Kim MW 8:00am - 8:50am W 3:20pm - 5:10pm	Seats (Total: 40) BRB 1101 EGR 3108	 Lab
0104	Jungho Kim MW 8:00am - 8:50am Tu 3:20pm - 5:10pm	Seats (Total: 40) BRB 1101 EGR 3108	 Lab
0105	Jungho Kim MW 8:00am - 8:50am M 3:20pm - 5:10pm	Seats (Total: 40) BRB 1101 EGR 3108	 Lab

ENME351 **Electronics and Instrumentation II**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS271, ENME350, and PHYS270.

Continuation of ENME 350. Modern instrumentation. Basic circuit design, standard microelectronic circuits. Digital data acquisition and control. Signal conditioning. Instrumentation interfacing. Designing and testing of analog circuits. Laboratory experiments.

0101	Steven Mitchell MW 10:00am - 10:50am Tu 1:00pm - 2:50pm	Seats (Total: 40) EGR 1202 EGR 3108	 Lab
0102	Steven Mitchell MW 10:00am - 10:50am W 6:00pm - 7:50pm	Seats (Total: 40) EGR 1202 EGR 3108	 Lab
0103	Steven Mitchell MW 10:00am - 10:50am W 1:00pm - 2:50pm	Seats (Total: 40) EGR 1202 EGR 3108	 Lab
0104	Steven Mitchell MW 10:00am - 10:50am Tu 6:00pm - 7:50pm	Seats (Total: 40) EGR 1202 EGR 3108	 Lab

ENME361 **Vibration, Controls and Optimization I**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENES220, ENES221, and MATH246; and (ENME271 or MATH206). Restriction: Must be in Engineering: Mechanical program.

Fundamentals of vibration, controls and optimization. Analysis and design in time, Laplace and frequency domains. Mathematical description of system response, system stability, control and optimization. Optimal design of mechanical systems.

0101	Miao Yu TuTh 9:30am - 10:45am	Seats (Total: 150) EGR 1202	

ENME371 **Product Engineering and Manufacturing**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENES221; and (ENME392 or STAT400). Restriction: Must be in Engineering: Mechanical program.

Business aspects of engineering product development. Relationship of design and manufacturing. Product specification. Statistical process control. Design team development. The development process.

0101	Vincent Nguyen MW 11:00am - 11:50am Th 5:00pm - 6:50pm	Seats (Total: 30) EGR 1202 EGL 0101	 Lab
0102	Vincent Nguyen MW 11:00am - 11:50am Th 3:00pm - 4:50pm	Seats (Total: 30) EGR 1202 EGL 0101	 Lab
0103	Vincent Nguyen MW 11:00am - 11:50am F 8:00am - 9:50am	Seats (Total: 30) EGR 1202 EGL 0101	 Lab
0104	Vincent Nguyen MW 11:00am - 11:50am Th 7:00pm - 8:50pm	Seats (Total: 30) EGR 1202 EGL 0101	 Lab
0105	Vincent Nguyen MW 11:00am - 11:50am W 6:00pm - 7:50pm	Seats (Total: 30) EGR 1202 EGL 0101	 Lab

ENME382 **Introduction to Materials Engineering**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENES100; and permission of ENGR-Mechanical Engineering department. Corequisite: MATH241. Recommended: PHYS261 and PHYS260. Also offered as: ENMA300. Credit only granted for: ENMA300 or ENME382.

Structure of materials, chemical composition, phase transformations, corrosion and mechanical properties of metals, ceramics, polymers and related materials. Materials selection in engineering applications.

0101	Liyang Dai-Hattrick TuTh 11:00am - 12:15pm	Seats (Total: 90) CHE 2110
0301	Patrick McCluskey MWF 10:00am - 10:50am	Seats (Total: 90) CHE 2110

ENME392 **Statistical Methods for Product and Processes Development**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH241.

Integrated statistical methodology for the improvement of products and processes in terms of performance, quality and cost. Designed experimentation. Statistical process control. Software application. Laboratory activities.

Delivered via ITV.

0101	Peter Chung TuTh 11:00am - 12:15pm	Seats (Total: 103) JMP 3201	
0201	David Bigio TuTh 9:30am - 10:45am	Seats (Total: 120) JMP 3201	

ENME400 **Machine Design**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in ENME361. Restriction: Permission of ENGR-Mechanical Engineering department.

Design of mechanical elements and planar machines. Failure theories. Design of pressure vessels, joints, rotating elements, and transmission elements. Kinematic structures, graphical, analytical, and numerical analysis and synthesis of linkages, gear trains, and flywheels are covered.

0101	Chandrasekhar Thamire MW 9:00am - 9:50am F 9:00am - 10:50am	Seats (Total: 70) KEB 1110 KEB 1200	 Discussion
0201	Chandrasekhar Thamire TuTh 10:00am - 10:50am Th 2:00pm - 3:50pm	Seats (Total: 40) BPS 1243 EGR 0135	 Discussion
0202	Chandrasekhar Thamire TuTh 10:00am - 10:50am Tu 8:00am - 9:50am	Seats (Total: 30) BPS 1243 HBK 0115	 Discussion

ENME408 **Selected Topics in Engineering Design; Automotive Design**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Creativity and innovation in design. Generalized performance analysis, reliability and optimization as applied to the design of components and engineering systems. Use of computers in design of multivariable systems.

Restriction: Must be in Engineering: Mechanical program; and senior standing. Or permission of ENGR-Mechanical Engineering department. Repeatable to 6 credits if content differs. Creativity and innovation in design. Generalized performance analysis, reliability and optimization as applied to the design of components an engineering systems. Use of computers in design of multivariable systems.

0101	Leonard Hamilton	Seats (Total: 55)
	MW 5:00pm - 6:15pm	JMP 3201

ENME416 **Additive Manufacturing**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENME331. And ENME272; or ENME414. Restriction: Permission of ENGR-Mechanical Engineering department.

Develop a comprehensive understanding of fundamental additive manufacturing, 3D printing approaches, including: extrusion-based deposition, stereolithography, powder bed-based melting, and inkjet-based deposition. Cultivate a design for-additive manufacturing skillset for CAD and CAM methodologies to produce successful 3D prints. Fabricate 3D mechanical objects using a variety of 3D printing technologies on campus. Execute a design project that demonstrates how additive manufacturing technologies can overcome critical limitations of traditional manufacturing processes.

0101	Ryan Sochol	Seats (Total: 50)
	MWF 12:00pm - 12:50pm	JMP 2121

ENME423 **Modern Climate Control and Building Energy Design/Analysis**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENES232. Corequisite: ENME332. Restriction: Permission of ENGR-Mechanical Engineering department.

Fundamentals and design calculations of heat and moisture transfer in buildings; evaluation of cooling, heating and power requirements of buildings; building energy consumption simulations, use of alternative energy and energy conservation measures in buildings; fundamentals of fans/pumps and air/water distribution in buildings; introduction to refrigeration and energy systems for data centers and other mission-critical facilities.

Delivered via ITV.

0101	Jelena Srebric TuTh 12:30pm - 1:45pm	Seats (Total: 35) ATL 2428	

ENME430 **Fundamentals of Nuclear Reactor Engineering**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH246. Restriction: Permission of ENGR-Mechanical Engineering department.

Fundamental aspects of nuclear physics and nuclear engineering, including nuclear interactions; various types of radiation and their effects on materials and humans; and basic reactor physics topics, including simplified theory of reactor critically.

0101	Robert Sanders TuTh 2:00pm - 3:15pm	Seats (Total: 35) JMP 2121	

ENME432 **Reactor and Radiation Measurements Laboratory**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENME430 and MATH246. Restriction: Permission of ENGR-Mechanical Engineering department. Also offered as: ENNU440. Credit only granted for: ENNU440 or ENME432.

Basics concepts of nuclear radiation and radiation detectors including types of radiation, radioactive decay, and interactions of radiation with matter.

0101	Michael Coplan, Amber Johnson, Matthew Forsbacka, Timothy Koeth Th 9:30am - 10:20am Th 4:00pm - 7:00pm	Seats (Total: 10) CHM 0124 CHE 1306	 Lab

ENME440 **Applied Machine Learning for Engineering and Design**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENME392; or permission of instructor. Restriction: Permission of ENGR-Mechanical Engineering department. Credit only granted for: ENME440, ENME808E, or ENME743.

Learn how to apply techniques from Artificial Intelligence and Machine Learning to solve engineering problems and design new products or systems. Design and build a personal or research project that demonstrates how computational learning algorithms can solve difficult tasks in areas you are interested in. Master how to interpret and transfer state-of-the-art techniques from computer science to practical engineering situations and make smart implementation decisions.

0101	Mark Fuge	Seats (Total: 15)
	TuTh 2:00pm - 3:15pm	CHE 2136

ENME442 **Information Security**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must have Senior standing in engineering; and permission of ENGR-Mechanical Engineering department. Also offered as: ENRE684. Credit only granted for: ENRE648J, ENME442, ENRE684, or ENPM808E.

The materials presented are divided into three major components: overview, detailed concepts and implementation techniques. The topics to be covered are: general security concerns and concepts from both a technical and management point of view, principles of security, architectures, access control and multi-level security, trojan horses, covert channels, trap doors, hardware security mechanism, security models, security kernels, formal specifications and verification, networks and distribution systems and risk analysis.

0101	Michel Cukier	Seats (Total: 24)
	TuTh 9:30am - 10:45am	JMP 2222

ENME444 **Assistive Robotics**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENME351. Restriction: Permission of ENGR-Mechanical Engineering department.

Fundamentals of assistive robots used in a wide varietyof ways to help humans with disabilities. Three application areas will be covered: (1) Rehabilitation robotics to recover motor function from neurologic injuries such as stroke, (2) Prosthetics to enable mobility function in amputees, and (3) Social robotics for cognitive impairment and developmental disorders such as autism. Theory behind different control systems employed by assistive robotics, as well as the mechanical design, sensors & actuators, and user interfaces behind representative robots in the respective areas. Guidelines for designing assistive robots. Ethical and regulatory considerations in the design of assistive robots.

0101	Anindo Roy	Seats (Total: 30)
	TuTh 9:30am - 10:45am	JMP 1109

ENME454 **Vehicle Dynamics**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Corequisite: ENME361. Restriction: Permission of ENGR-Mechanical Engineering department.

The fundamentals of passenger vehicle and light truck design and vehicl dynamics are covered. The engineering principles associated with acceleration, braking, handling, ride quality, aerodynamics, and tire mechanics are discussed, as well as suspension and steering design.

0101	Vincent Nguyen MW 3:30pm - 4:45pm	Seats (Total: 66) JMP 3201	

ENME462 **Vibrations, Controls, and Optimization II**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENME351 and ENME361.

Continuation of ENME 361. Fundamentals of vibration, controls, and optimization. Analysis and design in time, Laplace and frequency domains. Mathematical descriptions of system response, system stability, control and optimization. Optimal design of mechanical systems.

Delivered via ITV.

0101	Munther Hassouneh MW 10:00am - 10:50am W 1:00pm - 2:50pm	Seats (Total: 40) JMP 3201 KEB 2111	 Discussion
0103	Munther Hassouneh MW 10:00am - 10:50am F 10:00am - 11:50am	Seats (Total: 40) JMP 3201 KEB 2111	 Discussion
0201	Yancy Diaz-Mercado MW 10:00am - 10:50am W 1:00pm - 2:50pm	Seats (Total: 30) EGR 1108 KEB 2107	 Discussion
0202	Yancy Diaz-Mercado MW 10:00am - 10:50am M 11:00am - 12:50pm	Seats (Total: 30) EGR 1108 KEB 2107	 Discussion

ENME466 **Lean Six Sigma**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: ENME392, BMGT230, or STAT400; or students who have taken courses with comparable content may contact the department.

This course intends to provide in-depth understanding of Lean Six Sigma and its Define - Mearsure - Analyze - Improve - Control (DMAIC) Breakthrough Improvement Strategy. The emphasis is placed on the DMAIC process which is reinforced via application of semester long corporate projects and case study analysis.

0101	David Bigio TuTh 3:30pm - 4:45pm	Seats (Total: 40) EGR 3106

ENME467 **Engineering for Social Change**

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Permission of ENGR-Mechanical Engineering department; and junior standing or higher.

Critical analysis of issues at the intersection of engineering, philanthropy and social change. How engineering design, products and processes have impacted social change in the past and will do so in the future. Topics covered include energy, sustainability and climate change, autonomy, the digital future, low cost engineering, manufacturing, ethics and the impact of electronics on society. Faculty and external experts will engage with students on these topics. Students will award a significant amount of grant money to an organization involved in technology for social change

Also offered as ENES467. Credit granted for ENME467 or ENES467.

0101	Davinder Anand MW 11:00am - 12:15pm	Seats (Total: 30) ITV 1100

ENME470 **Finite Element Analysis**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Senior standing; and permission of ENGR-Mechanical Engineering department.

Basic concepts of the theory of the finite element method. Applications in solid mechanics and heat transfer.

0101	Guangming Zhang MW 12:00pm - 1:15pm	Seats (Total: 40) EGR 1156
0201	Guangming Zhang TuTh 12:00pm - 1:15pm	Seats (Total: 40) KEB 2111

ENME472 **Integrated Product and Process Development**

(Perm req) Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: CS

Prerequisite: ENME371.

Integration of product development with the development process. Design strategies. Product architecture. Design for manufacturing. Selection of materials. Design for assembly.

0101	Shapour Azarm Tu 12:00pm - 1:50pm TuTh 11:00am - 11:50am	Seats (Total: 30) EGL 0101 EGR 1202	Discussion
0102	Linda Schmidt Th 12:00pm - 1:50pm TuTh 11:00am - 11:50am	Seats (Total: 30) EGL 0101 EGR 1202	Discussion
0103	David Bigio, Hugh Bruck W 4:00pm - 5:50pm TuTh 11:00am - 11:50am	Seats (Total: 30) EGL 0101 EGR 1202	Discussion
0104	Monifa Vaughn-Cooke F 1:00pm - 2:50pm TuTh 11:00am - 11:50am	Seats (Total: 30) EGL 0101 EGR 1202	Discussion
0106	Gary Pertmer Tu 2:00pm - 3:50pm TuTh 11:00am - 11:50am	Seats (Total: 30) EGL 0101 EGR 1202	Discussion

ENME473 Mechanical Design of Electronic Systems

(Perm req) Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Design considerations in the packaging of electronic systems. Production of circuit boards and design of electronic assemblies. Vibration, shock, fatigue and thermal considerations.

Delivered via ITV.

0101	Abhijit Dasgupta MW 2:00pm - 3:15pm	Seats (Total: 25) JMP 2121	

ENME483 Physics of Turbulent Flow

(Perm req) Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENME331. Restriction: Permission of ENGR-Mechanical Engineering department. Also offered as: ENME656. Credit only granted for: ENME483 or ENME656.

Specific problems of turbulent flow including automobile and truck aerodynamics and canonical flows including pipes, jets and boundary layers that are measured and simulated to gain basic understanding of turbulence. A goal of the course is to impart the necessary background for students to be able to critically assess and most effectively employ the turbulent flow prediction codes (e.g. Fluent) that are a mainstay of how turbulence is analyzed in modern industries.

0101	Peter Bernard	Seats (Total: 10)
	MW 11:00am - 12:15pm	EGR 2116

ENME488 **Special Problems**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Advanced problems in mechanical engineering with special emphasis on mathematical and experimental methods.

Limited to mechanical engineering seniors.

Contact department for information to register for this course.

ENME489 **Special Topics in Mechanical Engineering**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected topics of current importance in mechanical engineering.

Contact department for information to register for this course.

ENME489B **Special Topics in Mechanical Engineering; Mechatronics and the Internet of Things**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected topics of current importance in mechanical engineering.

Prerequisite: ENME351; and permission of department.

0101	Don DeVoe	Seats (Total: 30)
	MW 3:30pm - 4:45pm	AJC 2119

ENME489C **Special Topics in Mechanical Engineering; Medical Robotics**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected topics of current importance in mechanical engineering.

Co-req ENME361 Permission of the Department.

0101	Axel Krieger	Seats (Total: 30)
	MW 2:00pm - 3:15pm	EGR 0135

ENME489E **Special Topics in Mechanical Engineering; Design for Sustainability**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected topics of current importance in mechanical engineering.

0101	Senthil Arul	Seats (Total: 45)
	TuTh 5:00pm - 6:15pm	CHE 2118

ENME489F **Special Topics in Mechanical Engineering; Dynamics of Atmospheric Flight**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected topics of current importance in mechanical engineering.

Prerequisite: ENME331.

0201	David Findlay	Seats (Total: 10)
	W 3:30pm - 6:10pm	JMP 2120

ENME489G **Special Topics in Mechanical Engineering; Manufacturing Processes and Design**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected topics of current importance in mechanical engineering.

Prerequisites: ENME382; and permission of department.

0101	Ho Yeung	Seats (Total: 30)
	TuTh 3:30pm - 4:45pm	CSI 3120

ENME489V **Special Topics in Mechanical Engineering; Mechanical Contracting**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected topics of current importance in mechanical engineering.

0101	Gary Pertmer, Michael Mack Th 8:00am - 10:40am	Seats (Total: 31) EGR 2154

ENME489X **Special Topics in Mechanical Engineering; Energy Conversion Systems for Sustainability**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected topics of current importance in mechanical engineering.

Prerequisite: ENES232.

0101	Ashwani Gupta Th 4:00pm - 6:40pm	Seats (Total: 65) JMP 3201

ENME489Z **Special Topics in Mechanical Engineering; Structural Mechanics - Aerospace Applications**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected topics of current importance in mechanical engineering.

Prerequisite: ENES220 and MATH246. Restriction: permission of department.

Contact department for information to register for this course.

ENME605 **Advanced Systems Control**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENME462; or permission of instructor.

Modern control theory for both continuous and discrete systems. State space representation is reviewed and the concepts of controllability and observability are discussed. Design methods of deterministic observers are presented and optimal control theory is formulated. Control techniques for modifying system characteristics are discussed.

0101	Nikhil Chopra MW 12:30pm - 1:45pm	Seats (Total: 25) EGR 1102

ENME610 **Engineering Optimization**

Credits: 3 Grading Method: Regular, Audit

Overview of applied single- and multi- objective optimization and decision making concepts and techniques with applications in engineering design and/or manufacturing problems. Topics include formulation examples, concepts, optimality conditions, unconstrained/constrained methods, and post-optimality sensitivity analysis. Students are expected to work on a semester-long real-world multi-objective engineering project.

0101	Shapour Azarm	Seats (Total: 30)
	Tu 4:00pm - 6:40pm	ITV 1111

ENME631 **Advanced Conduction and Radiation Heat Transfer**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENME332; or students who have taken courses with comparable content may contact the department; or permission of instructor.

Theory of conduction and radiation. Diffused and directional, poly- and mono-chromatic sources. Quantitative optics. Radiation in enclosures. Participating media. Integrodifferential equations. Multidimensional, transient and steady-state conduction. Phase change. Coordinate system transformations.

0101	Bao Yang	Seats (Total: 25)
	MW 2:00pm - 3:15pm	PHY 4221

ENME640 **Fundamentals of Fluid Mechanics**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have completed partial differential equations at the level of MATH 462; or permission of ENGR-Mechanical Engineering department. Formerly: ENME651.

Equations governing the conservation of mass, momentum, vorticity and energy in fluid flows. Low Reynolds number flows. Boundary layers. The equations are illustrated by analyzing a number of simple flows. Emphasis is placed on physical understanding to facilitate the study of advanced topics in fluid mechanics.

0101	Peter Bernard	Seats (Total: 30)
	MW 3:30pm - 4:45pm	CHE 2136

ENME656 **Physics of Turbulent Flow**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENME640; or students who have taken courses with comparable content may contact the department; or permission of instructor.

Definition of turbulence and its physical manifestations. Statistical methods and the transport equations for turbulence quantities. Laboratory measurement and computer simulation methods. Isotropic turbulence. Physics of turbulent shear flows.

0101	Peter Bernard	Seats (Total: 15)
	MW 11:00am - 12:15pm	EGR 2116

ENME662 **Linear Vibrations**

Credits: 3 Grading Method: Regular, Audit

Development of equations governing small oscillations and spatially continuous systems. Newton's equations, Hamilton's principle, and Lagrange's equations. Free and forced vibrations of mechanical systems. Modal analysis. Finite element discretization and reductions of continuous systems. Numerical methods. Random vibrations.

0101	Amr Baz	Seats (Total: 30)
	TuTh 5:00pm - 6:15pm	EGR 2116

ENME670 **Continuum Mechanics**

Credits: 3 Grading Method: Regular, Audit

Mechanics of deformable bodies, finite deformation and strain measures, kinematics of continua and global and local balance laws. Thermodynamics of continua, first and second laws. Introduction to constitutive theory for elastic solids, viscous fluids and memory dependent materials. Examples of exact solutions for linear and hyper elastic solids and Stokesian fluids.

0101	Teng Li	Seats (Total: 25)
	MW 11:00am - 12:15pm	EGR 3106

ENME690 **Mechanical Fundamentals of Electronic Systems**

Credits: 3 Grading Method: Regular, Audit

An understanding of the fundamental mechanical principles used in desig of electronic devices and their integration into electronic systems will be provided. Focus will be placed on the effect of materials compatibility, thermal stress, mechanical stress, and environmental exposure on product performance, durability and cost. Both electronic devices and package assemblies will be considered. Analysis of package assemblies to understand thermal and mechanical stress effects will be emphasized through student projects.

0101	Abhijit Dasgupta MW 2:00pm - 3:15pm	Seats (Total: 25) JMP 2121
ER01	Abhijit Dasgupta Class time/details on ELMs	Seats (Total: 15) ONLINE
RE01	Abhijit Dasgupta Class time/details on ELMs	Seats (Total: 5) ONLINE

ENME700 **Advanced Mechanical Engineering Analysis I**

Credits: 3 Grading Method: Regular, Audit

An advanced, unified approach to the solution of mechanical engineering problems, emphasis is on the formulation and solution of equilibrium, eigenvalue and propagation problems. Review and extension of undergraduate material in applied mathematics with emphasis on problems in heat transfer, vibrations, fluid flow and stress analysis which may be formulated and solved by classical procedures.

0101	Edward Magrab TuTh 12:30pm - 1:45pm	Seats (Total: 25) EGR 3106

ENME701 **Sustainable Energy Conversion and the Environment**

Credits: 3 Grading Method: Regular, Audit

Recommended: ENME633. Credit only granted for: ENME701, ENME706 or ENME808D. Formerly: ENME706 and ENME808D.

Discussion of the major sources and end-uses of energy in our society with particular emphasis on renewable energy production and utilization. Introduces a range innovative technologies and discusses them in the context of the current energy infrastructure. Renewable sources such as wind and solar are discussed in detail. Particular attention is paid to the environmental impact of the various forms of energy.

0101	Jiazhen Ling, Yunho Hwang Tu 4:00pm - 6:40pm	Seats (Total: 25) JMP 2217

ME01	Yunho Hwang, Jiazhen Ling Class time/details on ELMs	Seats (Total: 10) ONLINE

ENME707 **Combustion and Reacting Flow**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENME331 and ENME332; or students who have taken courses with comparable content may contact the department.

This course covers thermochemistry and chemical kinetics of reacting flows in depth. In particular, we focus on the combustion of hydrocarbonf uels in both a phenomenological and mechanistic approach. The course co vers the specifics of premixed and nonpremixed flame systems, as wellasignition and extinction. Combustion modeling with equilibrium and chemical kinetic methods will be addressed. Environmental impact and emissi ons minimization will be covered in detail. Finally, the course will co ver available combustion diagnostic methods and their application in laboratory and real-world systems.

0101	Michael Zachariah TuTh 9:30am - 10:45am	Seats (Total: 6) SPH 0308

ENME725 **Probabilistic Optimization**

Credits: 3 Grading Method: Regular, Audit

Also offered as: ENCE725. Credit only granted for: ENME725 or ENCE725.

Provide an introduction to optimization under uncertainty. Chance-constrained programming, reliability programming, value of information, two stage problems with recourse, decomposition methods, nonlinear and linear programming theory, probability theory. The objectives of this course are to provide understanding for studying problems that involve optimization under uncertainty, learn about various stochastic programming formulations (chance constrained programs, two stage methods with recourse, etc.) relevant to engineering and economic settings, present theory for solutions to such problems, and present algorithms to solve these problems.

0101	Steven Gabriel Th 8:30am - 11:00am	Seats (Total: 17) JMP 2120
ER01	Steven Gabriel Class time/details on ELMs	Seats (Total: 10) ONLINE
RE01	Steven Gabriel Class time/details on ELMs	Seats (Total: 10) ONLINE

ENME741 **Operations Research Models in Engineering**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: (ENCE302; or (ENME271 and ENME392)); and (MATH140 and MATH240). Or permission of instructor. Credit only granted for: ENME738, ENME741, or ENCE603. Formerly: ENME738.

A survey of the fundamentals of operations research models and methods in engineering including: optimization using linear programming, nonlinear programming, integer programming, as well as equilibrium/game theory via mixed complementarity problems. Examples of specialized course items include: specifics of optimizing power and gas networks, discussion of other network optimization problems, resource-constrained problems, two-level optimization as an example of mixed integer nonlinear programming (MINLP) programming problems as well as algorithms to solve the above types of problems."

Also offered as ENRE689E. Additional note: For Fall 2018 credit is only granted for ENME738, ENME741, ENRE808E, ENCE603. Formerly: ENME738.

0101	Steven Gabriel W 8:30am - 11:00am	Seats (Total: 15) JMP 2120
ER01	Steven Gabriel Class time/details on ELMs	Seats (Total: 10) ONLINE
RE01	Steven Gabriel Class time/details on ELMs	Seats (Total: 10) ONLINE

ENME743 **Applied Machine Learning for Engineering and Design**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have completed undergraduate level Statistics (ENME392 or equivalent), or permission of the instructor. Credit only granted for: ENME440, ENME808E OR ENME743.

Learn how to apply techniques from Artificial Intelligence and Machine Learning to solve engineering problems and design new products or systems. Design and build a personal or research project that demonstrates how computational learning algorithms can solve difficult tasks in areas you are interested in. Master how to interpret and transfer state-of-the-art techniques from computer science to practical engineering situations and make smart implementation decisions.

0101	Mark Fuge TuTh 2:00pm - 3:15pm	Seats (Total: 15) CHE 2136

ENME744 **Additive Manufacturing**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENME272 and ENME331; or students who have taken courses with comparable content may contact the department. Also offered as: ENME416. Credit only granted for: ENME 416 OR ENME 744.

Develop a comprehensive understanding of fundamental additive manufacturing-alternatively, "three-dimensional (3D) printing-approaches, including extrusion-based deposition, stereolithography, powder bed-based melting, and inkjet-based deposition. Cultivate a "design-for-additive manufacturing" skill set for combining computer-aided design (CAD) and computer-aided manufacturing (CAM) methodologies to produce successful 3D prints. Fabricate 3D mechanical objects using a variety of 3D printing technologies on campus. Execute a design project that demonstrates how additive manufacturing technologies can overcome critical limitations of traditional manufacturing processes.

DE01	Ryan Sochol	Seats (Total: 15)
	Class time/details on ELMs	ONLINE

ENME745 **Numerical Methods in Engineering**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: ENME745 and ENME808B. Formerly: ENME808B.

Fundamental aspects of how to apply analytical mathematical concepts to discrete data. The course is aimed at graduate students in any area of engineering, and treats the material in a general manner that is not specific to any application or field of specialization.

0101	Johan Larsson	Seats (Total: 30)
	MW 9:30am - 10:45am	PLS 1117

ENME799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

ENME808 **Advanced Topics in Mechanical Engineering**

Credits: 3 Grading Method: Regular, Audit

Contact department for information to register for this course.

ENME808A **Advanced Topics in Mechanical Engineering; Batteries: Operation, Modeling and Reliability**

Credits: 3 Grading Method: Regular, Audit

0101	Michael Pecht TuTh 9:30am - 10:45am	Seats (Total: 25) EGR 3102

ENME808B **Advanced Topics in Mechanical Engineering; Applied Nonlinear Controls**

Credits: 3 Grading Method: Regular, Audit

0101	Jin-Oh Hahn MW 5:00pm - 6:15pm	Seats (Total: 25) EGR 3102

ENME808M **Advanced Topics in Mechanical Engineering; Medical Robotics**

Credits: 3 Grading Method: Regular, Audit

0101	Axel Krieger MW 2:00pm - 3:15pm	Seats (Total: 10) EGR 0135

ENME808U **Advanced Topics in Mechanical Engineering; Modern Climate Control and Building Energy Design/Analysis**

Credits: 2-3 Grading Method: Regular, Audit

0101	Jelena Srebric TuTh 12:30pm - 1:45pm	Seats (Total: 5) ATL 2428

ENME808X **Advanced Topics in Mechanical Engineering; Mathematical Foundations for Computer Engineering**

Credits: 3 Grading Method: Regular, Audit

0101	Uzi Vishkin MW 12:30pm - 1:45pm	Seats (Total: 5) MCB 1207

ENME898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

ENME899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

ENPM Engineering, Professional Masters Fall 2018

ENPM600 **Probability and Stochastic Processes for Engineers**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Undergraduate introduction to discrete and continuous probability.

Axioms of probability; conditional probability and Bayes' rule; random variables, probability distributions and densities; functions of random variables; definition of stochastic process; stationary processes, correlation functions, and power spectral densities; stochastic processes and linear systems; estimation and optimum filtering. Applications in communication and control systems, signal processing, and detection and estimation.

0101	C Ravishankar M 7:00pm - 9:40pm	Seats (Total: 29) JMP 2217
SG01	C Ravishankar M 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SM01	C Ravishankar M 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA

ENPM607 **Computer System Design and Architecture**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENEE446; or students who have taken courses with comparable content may contact the department.

Principles of computer design and cost/performance factors; instruction set design and implementation, RISC vs. CISC instruction sets; control unit and pipeline design; floating-point arithmetic; memory hierarchy designs, caches, memory interleaving, virtual memory; I/O device interconnections to CPUs and main memory. Additional topics include parallel system designs, SIMD, MIMD, SPMD; interconnection networks for processors and memories; optimization of pipeline operations; superscalar architectures, power management techniques.

0101	Manoj Franklin M 4:00pm - 6:40pm	Seats (Total: 35) JMP 2222

SG01	Manoj Franklin M 4:00pm - 6:40pm	Seats (Total: 5) Location: TBA
SM01	Manoj Franklin M 4:00pm - 6:40pm	Seats (Total: 5) Location: TBA

ENPM611 **Software Engineering**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Competency in one programming language; and must have completed an undergraduate software engineering course. Or permission of instructor. Restriction: Permission of ENGR-CDL-Office of Advanced Engineering Education.

Software engineering concepts, methods, and practices important to both the theorist and the practitioner will be covered. The entire range of responsibilities expected of a software engineer are presented. The fundamental areas of requirements development, software design, programming languages, and testing are covered extensively. Sessions on supporting areas such as systems engineering, project management, and software estimation are also included.

0101	Christopher Ackermann M 4:00pm - 6:40pm	Seats (Total: 50) JMP 2121
DE01	Christopher Ackermann Class time/details on ELMs	Seats (Total: 10) ONLINE
SG01	Christopher Ackermann M 4:00pm - 6:40pm	Seats (Total: 5) Location: TBA
SM01	Christopher Ackermann M 4:00pm - 6:40pm	Seats (Total: 5) Location: TBA

ENPM613 **Software Design & Implementation**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENPM611. Restriction: Permission of ENGR-CDL-Office of Advanced Engineering Education.

Software design concepts and practices within the field important to both the practitioner and the theorist will be covered. Architectural and detailed designs are included for batch, client/server, and real-time systems. Design considerations for structured, object-oriented, and Web-based systems are covered. Design of databases, user interfaces, forms, and reports are also included. Implementation issues that affect the design, including error handling, performance, and inter-process communication, are presented.

0101	Ioana Rus W 7:00pm - 9:40pm	Seats (Total: 35) JMP 2217
DE01	Ioana Rus Class time/details on ELMs	Seats (Total: 10) ONLINE
SG01	Ioana Rus W 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SM01	Ioana Rus W 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA

ENPM620 **Computer Aided Engineering Analysis**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of ENGR-Office of Advanced Engineering Education. Credit only granted for: ENPM620 or ENRE620/ENNU620.

Computer assisted approach to the solution of engineering problems. Review and extension of undergraduate material in applied mathematics including linear algebra, vector calculus, differential equations, and probability and statistics.

A laptop or Tablet PC is required for in-class use.

0101	Gilad Sharon M 7:00pm - 9:40pm	Seats (Total: 17) JMP 2120
ME01	Gilad Sharon Class time/details on ELMs	Seats (Total: 20) ONLINE
SG01	Gilad Sharon M 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SM01	Gilad Sharon M 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA

ENPM622 **Energy Conversion I - Stationary Power**

Credits: 3 Grading Method: Regular, Audit

Thermal engineering of modern power generation systems. Cycle analysis of various modern power generation technologies including gas turbine, combined cycle, waste burning and cogeneration. Energy storage and energy transport.

0101	Patrick Caton W 4:20pm - 7:00pm	Seats (Total: 30) JMP 2216
ME01	Patrick Caton Class time/details on ELMs	Seats (Total: 20) ONLINE
SG01	Patrick Caton W 4:20pm - 7:00pm	Seats (Total: 5) Location: TBA
SM01	Patrick Caton W 4:20pm - 7:00pm	Seats (Total: 5) Location: TBA

ENPM624 **Renewable Energy Applications**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Knowledge of thermodynamics, fluid mechanics, and heat transfer; and permission of ENGR-Office of Advanced Engineering Education. Credit only granted for: ENPM624 or ENME701.

Thermodynamics and heat transfer of renewable energy sources for heating, power generation and transportation. Wind energy, solar thermal, photovoltaic, biomass, waste burning, and hydropower. Broad overview of the growing use of renewable energy sources in the world economy with detailed analysis of specific applications.

0101	Martinus Arie, Farah Singer Th 7:00pm - 9:40pm	Seats (Total: 17) JMP 2120
ME01	Martinus Arie, Farah Singer, Michael Ohadi Class time/details on ELMs	Seats (Total: 20) ONLINE
SG01	Farah Singer, Martinus Arie, Michael Ohadi Th 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA

SM01	Michael Ohadi, Martinus Arie, Farah Singer Th 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA

ENPM625 **Heating, Ventilation and Air Conditioning of Buildings**

Credits: 3 Grading Method: Regular, Audit

Low pressure side of buildings heating and cooling systems. Thermodynamics, heat transfer and digital control principles applied to field problems. Quantitative analyses stressed. Topics include psychometrics, thermal loads, incompressible flow in ducts and pipes, heat exchangers, cooling towers, PID control systems.

0101	Karim Amrane Th 7:00pm - 9:40pm	Seats (Total: 25) JMP 2217
SG01	Karim Amrane Th 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SM01	Karim Amrane Th 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA

ENPM631 **TCP/IP Networking**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENPM602; or permission of instructor. And permission of ENGR-CDL-Office of Advanced Engineering Education.

Describe how IP datagram travels through the internet and are routed from the source to the destination. Introduce the two transport protocols: UDP and TCP, the proper context to use each one, and related parameters and issues. Cover some other protocols, closely related to the TCP/IP that are responsible for the seamless operation of the Internet.

0101	Pedram Fard Tu 7:00pm - 9:40pm	Seats (Total: 25) JMP 2216
SG01	Pedram Fard Tu 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SM01	Pedram Fard Tu 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA

ENPM641 **Systems Concepts, Issues, and Processes**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Prerequisite: Permission of ENGR-Office of Advanced Engineering Education. Also offered as: ENSE621. Credit only granted for: ENPM641 or ENSE621.

An introduction to the professional and academic aspects of systems engineering. Topics include: systems engineering activities, opportunities and drivers; case studies of systems failures; models of system lifecycle development; introduction to model-based systems engineering; representations for system structure, system behavior, system interfaces and systems intergration; reactive (even-driven) systems, systems-of-systems, measures of system complexity; visual modeling of engineering systems with UML and SysML; simplified procedures for engineering optimization and tradeoff analysis. Software tools for visual modeling of systems with UML and SysML. Students will complete a project for the front-end development of an engineering system using ULM/SysML.

0101	Tony Barber M 7:00pm - 9:40pm	Seats (Total: 13) JMP 2216
0201	Timothy Eveleigh M 7:00pm - 9:40pm	Seats (Total: 24) JMP 2222
DE01	Tony Barber Class time/details on ELMs	Seats (Total: 11) ONLINE
SG01	Tony Barber M 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SM01	Tony Barber M 7:00pm - 9:40pm	Seats (Total: 3) Location: TBA

ENPM643 **Systems Projects, Validation and Verification**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Prerequisite: ENSE622 or ENPM642; and permission of ENGR-Office of Advanced Engineering Education. Also offered as: ENSE623. Credit only granted for: ENPM642 or ENSE623.

This course builds on material covered in ENSE621/ENPM641 and ENSE622/ENPM642. Topics wil cover established and emerging approaches to system validation and verification including; inspection, testing, and traceability; writing validation and verification plans; formal approaches to sytem validation and verification; specification-based testing; role of logic in system validation and verification; automation models of computation, timed automation; model-based design and model checking for reactive systems. Students will be introduced to software tools for specification-based testing, model-based testing, model-based design and model checking. Students will work in teams on semester-long projects in systems engineering design and formal approaches to system validation and verification.

0101	Steven Biemer W 7:00pm - 9:40pm	Seats (Total: 25) JMP 2222
DE01	Steven Biemer Class time/details on ELMs	Seats (Total: 6) ONLINE
SG01	Steven Biemer W 7:00pm - 9:40pm	Seats (Total: 1) Location: TBA
SM01	Steven Biemer W 7:00pm - 9:40pm	Seats (Total: 3) Location: TBA

ENPM646 **System Life Cycle Cost Analysis and Risk Management**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of ENGR-Office of Advanced Engineering Education. Also offered as: ENSE626. Credit only granted for: ENPM646 or ENSE626.

This course covers topics related to estimating the costs and risks incurred through the lifetimes of projects, products and systems. In addition, treatment is given to methods that determine the drivers of costs and risks and facilitate determination of the most effective alternatives to reducing them. Relevant analytic tools from probability and statistics and important managerial and organizational concepts. Extensive use is made of case studies from industry andgovernment.

Also offered as ENSE626.

0101	Nidak Sumrean Tu 7:00pm - 9:40pm	Seats (Total: 22) JMP 2222
0201	EleanoraAnn Gianni W 7:00pm - 9:40pm	Seats (Total: 24) EGR 2116

DE01	Nidak Sumrean Class time/details on ELMs	Seats (Total: 4) ONLINE
SG01	Nidak Sumrean Tu 7:00pm - 9:40pm	Seats (Total: 2) Location: TBA
SM01	Nidak Sumrean Tu 7:00pm - 9:40pm	Seats (Total: 2) Location: TBA

ENPM660 **Wind Energy Engineering**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: ENPM808Q or ENPM660. Formerly: ENPM808Q.

An examination of four central topics in wind energy engineering: the nature of wind energy as a resource for generating electricity; the aerodynamics of wind turbines by which the wind energy is converted into mechanical energy; the mechanics and dynamics of the wind energy system (tower, rotor, hub, drive train, and generator); and the electrical aspects of wind turbines. Additional topics to be included in the course include:Wind turbine design; wind turbine control; wind turbine siting, system design, and integration; Wind energy system economics; and wind energy systems environmental impacts and aspects. The course is intended to pass along substantial subject matter knowledge and skills, it can only be treated as an introduction to this extensive, multidisciplinary topic. However, students are expected to emerge with a substantial knowledge of wind energy systems and the methods used to analyze such systems.

ME01	James Turso Class time/details on ELMs	Seats (Total: 20) ONLINE

ENPM662 **Introduction to Robot Modeling**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: ENPM662 or ENPM808M. Formerly: ENPM808M.

This course introduces basic principles for modeling a robot. Most of the course is focused on modeling manipulators based on serial mechanisms. The course begins with a description of the homogenous transformation and rigid motions. It then introduces concepts related to kinematics, inverse kinematics, and Jacobians. This course then introduces Eulerian and Lagrangian Dynamics. Finally, the course concludes by introducing basic principles for modeling manipulators based on parallel mechanisms. The concepts introduced in this course are subsequently utilized in control and planning courses.

0101	Chad Kessens W 4:00pm - 6:40pm	Seats (Total: 52) JMP 2121
0201	Chad Kessens W 7:00pm - 9:40pm	Seats (Total: 52) JMP 2121
DE01	Chad Kessens Class time/details on ELMs	Seats (Total: 10) ONLINE
FL01	Chad Kessens W 4:00pm - 6:40pm *This section is for NAVAIR Cohort students located in Florida only.*	Seats (Total: 5) Location: TBA
SG01	Chad Kessens W 4:00pm - 6:40pm	Seats (Total: 5) Location: TBA
SM01	Chad Kessens W 4:00pm - 6:40pm	Seats (Total: 5) Location: TBA

ENPM667 **Control of Robotic Systems**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: ENPM667 or ENPM808Q. Formerly: ENPM808Q.

This is a basic course on the design of controllers for robotic systems. The course starts with mainstay principles of linear control, including a review of elementary concepts of systems, and discusses applications to independent joint control. The second part of the course introduces a physics-based approach to control design that uses energy and optimization principles to tackle the design of controllers that exploit the underlying dynamics of robotic systems. The course ends with an introduction to force control and basic principles of geometric control if time allows.

0101	Waseem Malik M 7:00pm - 9:40pm	Seats (Total: 80) JMP 3201
0201	Waseem Malik M 4:00pm - 6:40pm	Seats (Total: 29) JMP 2217
DE01	Waseem Malik Class time/details on ELMs	Seats (Total: 10) ONLINE

FL01	Waseem Malik M 7:00pm - 9:40pm *This section is for NAVAIR Cohort students located in Florida only.*	Seats (Total: 5) Location: TBA
SG01	Waseem Malik M 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SM01	Waseem Malik M 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA

ENPM672 **Fundamentals for Thermal Systems**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Undergraduate engineering, physics or chemistry degree. Restriction: Permission of ENGR-Office of Advanced Engineering Education.

Included in this course is an introduction to thermodynamics, fluid mechanics and heat transfer. Emphasis is on gaining an understanding of the physical concepts through the solving of numerical problems associated with simple thermal fluid processes and cycles. Both ideal gases and multiphase fluids will be considered as the working fluids.

ME01	Kristen Hines Class time/details on ELMs	Seats (Total: 25) ONLINE

ENPM677 **Wireless Sensor Networks**

Credits: 3 Grading Method: Regular, Audit

Focuses on networking aspects, protocols and architectures for Wireless Sensor Networks. Provides a thorough description of the most important issues and questions that have to be addressed in a wireless sensor neto work.

0101	Sasan Haghani Tu 7:00pm - 9:40pm	Seats (Total: 17) JMP 2120
SG01	Sasan Haghani Tu 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SM01	Sasan Haghani Tu 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA

ENPM687 **Digital Forensics and Incidence Responses**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Experience with both Windows and Unix-based operating systems, including using the command line. Credit only granted for: ENPM808P or ENPM687. Formerly: ENPM808P.

Students will implement a robust incident response methodology, including proper forensic handling of evidence, and cover legal aspects of national and international law regarding forensics. The bulk of the course covers evidence acquisition, preservation, analysis and reporting on multiple platforms.

CY01	Jonas Amoonarquah Class time/details on ELMs	Seats (Total: 40) ONLINE

ENPM691 **Hacking of C programs and Unix Binaries**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENEE150; or students who have taken courses with comparable content may contact the department.

Teaches the fundamentals of secure programming in C. An in depth discussion on various security vulnerabilities (e.g., buffer overflows) in C applications will be taught with hands-on demo of concepts during the class. Students will learn how a C program runs "under-the-hood". The course will teach nitty-gritty of C programs by analyzing at the assembly level. The course discusses best practices (e.g., coding standards) and design principles for secure programming so that security can be built-in during design time. In addition to assignments, students are required to present papers related to this course.

0101	Dharmalingam Ganesan Th 7:00pm - 9:40pm	Seats (Total: 65) JMP 3201
CY01	Dharmalingam Ganesan Class time/details on ELMs	Seats (Total: 20) ONLINE
SG01	Dharmalingam Ganesan Th 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SM01	Dharmalingam Ganesan Th 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA

ENPM693 **Network Security**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: An operating systems and/or network protocol course or equivalent. Formerly: ENPM808N.

Introduction to various approaches to design; specify and verify security protocols used in large systems and networks; familiarization with some current technologies. Security threats and countermeasures, communication security and basic encryption techniques, authentication protocols, data confidentiality and integrity, analysis of cryptographic protocols, and access control in large systems and networks.

0101	Sohraab Soltani Tu 7:00pm - 9:40pm	Seats (Total: 75) JMP 3201
CY01	Sohraab Soltani Class time/details on ELMs	Seats (Total: 30) ONLINE
SG01	Sohraab Soltani Tu 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SM01	Sohraab Soltani Tu 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA

ENPM694 Networks and Protocols

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: ENPM694 or ENPM808A. Formerly: ENPM808A.

Provides a deep understanding of TCP/IP protocol suit and routing in the internet. The course topics are: overview of TCP/IP, basics of IP protocol, basics of TCP protocol, Network Address Translation (NAT), Dynamic Host Configuration Protocol (DHCP), Internet Protocol Security (IPsec), Internet Control Message Protocol (ICMP), Simple Mail Transfer Protocol (SMTP), Domain Name Service (DNS), IPv6, Concepts of routing (Bellman-Ford and Dijkstra algorithms), Routing Information Protocol (RIP), Open Shortest Path First (OSPF), Interior Gateway Routing Protocol (IGRP), Enhance Gateway Routing Protocol (EIGRP), and Border Gateway Protocol (BGP).

0101	Sohraab Soltani W 7:00pm - 9:40pm	Seats (Total: 65) JMP 3201
CY01	Sohraab Soltani Class time/details on ELMs	Seats (Total: 30) ONLINE

SG01	Sohraab Soltani W 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SM01	Sohraab Soltani W 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA

ENPM696 **Reverse Software Engineering**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENPM691 and CMSC106; or permission of instructor. And permission of ENGR-CDL-Office of Advanced Engineering Education. Credit only granted for: ENPM808F or ENPM696. Formerly: ENPM808F.

An in-depth understanding of software reverse engineering concepts and hands-on training with reverse engineering tools, including disassemblers, decompilers, and code analyzers. Students will become familiar with both low-level software and the x86 instruction set through binary reversing sessions. This course also provides insights into many subjects such as system security, source code analysis, software design, and program understanding that will be beneficial in a variety of fields.

0101	Allen Hazelton Tu 4:00pm - 6:40pm	Seats (Total: 52) JMP 2121
CY01	Allen Hazelton Class time/details on ELMs	Seats (Total: 20) ONLINE
SG01	Allen Hazelton Tu 4:00pm - 6:40pm	Seats (Total: 5) Location: TBA
SM01	Allen Hazelton Tu 4:00pm - 6:40pm	Seats (Total: 5) Location: TBA

ENPM808 **Advanced Topics in Engineering**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics selected by the faculty for students in the professiona master of engineering program. May be taken for repeated credit when identified by topic title.

0101	George Syrmos Contact instructor or department for details.	Seats (Total: 10)

ENPM808J **Advanced Topics in Engineering; Rehabilitation Robotics**

Credits: 3 Grading Method: Regular, Audit

Advanced topics selected by the faculty for students in the professiona master of engineering program. May be taken for repeated credit when identified by topic title.

0101	Anindo Roy Tu 7:00pm - 9:40pm	Seats (Total: 52) JMP 2121
SG01	Anindo Roy Tu 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SM01	Anindo Roy Tu 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA

ENPM808K **Advanced Topics in Engineering; Human Robot Interaction**

Credits: 3 Grading Method: Regular, Audit

Advanced topics selected by the faculty for students in the professiona master of engineering program. May be taken for repeated credit when identified by topic title.

0101	Josef Schaff Th 7:00pm - 9:40pm	Seats (Total: 52) JMP 2121
FL01	Josef Schaff Th 7:00pm - 9:40pm *This section is for NAVAIR Cohort students located in Florida only.*	Seats (Total: 5) Location: TBA
SG01	Josef Schaff Th 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SM01	Josef Schaff Th 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA

ENPM808T **Advanced Topics in Engineering; Compilers**

Credits: 3 Grading Method: Regular, Audit

Advanced topics selected by the faculty for students in the professiona master of engineering program. May be taken for repeated credit when identified by topic title.

0101	Jerry Wu Th 4:00pm - 6:40pm	Seats (Total: 25) JMP 2217
SG01	Jerry Wu Th 4:00pm - 6:40pm	Seats (Total: 5) Location: TBA
SM01	Jerry Wu Th 4:00pm - 6:40pm	Seats (Total: 5) Location: TBA

ENPM808W **Advanced Topics in Engineering; Data Science**

Credits: 3 Grading Method: Regular, Audit

Advanced topics selected by the faculty for students in the professiona master of engineering program. May be taken for repeated credit when identified by topic title.

0101	A Seyed W 7:00pm - 9:40pm	Seats (Total: 38) JMP 2216
SG01	A Seyed W 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SM01	A Seyed W 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA

ENPM808X **Advanced Topics in Engineering; Software Development for Robotics**

Credits: 3 Grading Method: Regular, Audit

Advanced topics selected by the faculty for students in the professiona master of engineering program. May be taken for repeated credit when identified by topic title.

Prerequisite: ENEE150 or equivalent and proficiency in object-oriented programming (OOP)".

DE01	David Pietrocola Class time/details on ELMs	Seats (Total: 55) ONLINE

ENPM809J **Special Topics in Engineering; Cloud Security**

Credits: 3 Grading Method: Regular, Audit

Special topics selected by the faculty for students in the professional master of engineering and graduate certificate in engineering program. May be taken for repeated credit when identified by topic title.

0101	Kevin Shivers M 7:00pm - 9:40pm	Seats (Total: 40) JMP 2121
0201	Kevin Shivers Th 4:00pm - 6:40pm	Seats (Total: 38) JMP 2216
CY01	Kevin Shivers Class time/details on ELMs	Seats (Total: 30) ONLINE
SG01	Kevin Shivers M 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SM01	Kevin Shivers M 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA

ENPM809M **Special Topics in Engineering; Fundamentals of Power Electronics for Energy Systems**

Credits: 3 Grading Method: Regular, Audit

Special topics selected by the faculty for students in the professional master of engineering and graduate certificate in engineering program. May be taken for repeated credit when identified by topic title.

0101	Amir Shahirinia Th 4:00pm - 6:40pm	Seats (Total: 17) JMP 2120
ME01	Amir Shahirinia Class time/details on ELMs	Seats (Total: 20) ONLINE
SG01	Amir Shahirinia Th 4:00pm - 6:40pm	Seats (Total: 5) Location: TBA
SM01	Amir Shahirinia Th 4:00pm - 6:40pm	Seats (Total: 5) Location: TBA

ENPM809N **Special Topics in Engineering; Data Mining**

Credits: 3

Grading Method: Regular, Audit

Special topics selected by the faculty for students in the professional master of engineering and graduate certificate in engineering program. May be taken for repeated credit when identified by topic title.

0101	Deogratias Kibira W 4:00pm - 6:40pm	Seats (Total: 20) JMP 2217
SG01	Deogratias Kibira W 4:00pm - 6:40pm	Seats (Total: 5) Location: TBA
SM01	Deogratias Kibira W 4:00pm - 6:40pm	Seats (Total: 5) Location: TBA

ENPM809W **Special Topics in Engineering; Security and Software**

Credits: 3

Grading Method: Regular, Audit

Special topics selected by the faculty for students in the professional master of engineering and graduate certificate in engineering program. May be taken for repeated credit when identified by topic title.

0101	Mikael Lindvall Th 7:00pm - 9:40pm	Seats (Total: 30) JMP 2222
SG01	Mikael Lindvall Th 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SM01	Mikael Lindvall Th 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA

ENRE Reliability Engineering Fall 2018

ENRE489 **Special Topics in Reliability Engineering**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Selected topics of current importance in reliability engineering.

Contact department for information to register for this course.

ENRE600 **Fundamentals of Failure Mechanisms**

Credits: 3

Grading Method: Regular, Audit

Credit only granted for: ENMA698M, ENNU648M, or ENRE600.

Physical, chemical, and thermal related failures are introduced through a basic understanding of degradation mechanisms such as diffusion, electromigration, defects and defect migration. The failure mechanisms in basic material types will be taught. Failure mechanisms observed in real devices will also be presented. Problems related to manufacturing, and achieving quality and reliability will be analyzed. Mechanical failures are emphasized from the point of view of complex fatigue theory. The mathematical and statistical basis for analysis is presented as well as Failure Mode and Failure Anaylsis.

Those sections that begin with a letter are taught via ITV and are not intended for College Park campus students.

0101	Aristos Christou, Thomas Martin M 1:00pm - 3:40pm	Seats (Total: 20) JMP 2217
ER01	Aristos Christou, Thomas Martin Class time/details on ELMs	Seats (Total: 20) ONLINE
RE01	Aristos Christou, Thomas Martin Contact instructor or department for details.	Seats (Total: 4)
SM01	Aristos Christou, Thomas Martin Contact instructor or department for details.	Seats (Total: 5)

ENRE602 **Reliability Analysis**

Credits: 3

Grading Method: Regular, Audit

Principal methods of reliability analysis, including fault tree and reliability block diagrams; Failure Mode and Effects Analysis (FMEA); event tree construction and evaluation; reliability data collection and analysis; methods of modeling systems for reliability analysis. Focus on problems related to process industries, fossil-fueled power plant availability, and other systems of concern to engineers.

Those sections that begin with a letter are taught via ITV and are not i ntended for College Park campus students.

0101	Katrina Groth W 1:00pm - 3:40pm	Seats (Total: 17) JMP 2217
ER01	Katrina Groth Class time/details on ELMs	Seats (Total: 25) ONLINE

RE01	Katrina Groth W 1:00pm - 3:40pm	Seats (Total: 10) Location: TBA
SG01	Katrina Groth W 1:00pm - 3:40pm	Seats (Total: 5) Location: TBA
SM01	Katrina Groth W 1:00pm - 3:40pm	Seats (Total: 5) Location: TBA

ENRE641 **Probabilistic Physics of Failure and Accelerated Testing**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: ENRE641 or ENRE650. Formerly: ENRE650.

Models for life testing at constant stress. Graphical and analytical methods. Test plans for accelerated testing. Competing failure modes and size effects. Models and data analyses for step and time varying stresses. Optimizing of test plans.

0101	Mohammad Modarres Th 11:00am - 1:40pm	Seats (Total: 15) JMP 2217
ER01	Mohammad Modarres Th 11:00am - 1:40pm	Seats (Total: 15) ONLINE
RE01	Mohammad Modarres Th 11:00am - 1:40pm	Seats (Total: 15) ONLINE
SG01	Mohammad Modarres Th 11:00am - 1:40pm	Seats (Total: 5) Location: TBA
SM01	Mohammad Modarres Th 11:00am - 1:40pm	Seats (Total: 5) Location: TBA

ENRE648 **Special Problems in Reliability Engineering**

(Perm req)

Credits: 1-6 Grading Method: Regular, Audit

For students who have definite plans for individual study of approved problems. Credit given according to extent of work.

Contact department for information to register for this course.

ENRE655 **Advanced Methods in Reliability Modeling**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENRE602. Credit only granted for: ENRE655 or ENRE665. Formerly: ENRE665.

Bayesian methods and applications, estimation of rare event frequencies uncertainty analysis and propagation methods, reliability analysis of dynamic systems, analysis of dependent failures, reliability of repairable systems, human reliability analysis methods and theory of logic diagrams and application to systems reliability.

Contact department for information to register for this course.

ENRE670 **Probabilistic Risk Assessment**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENRE602. Also offered as: ENNU651. Credit only granted for: ENNU651 or ENRE670.

Why study risk, sources of risk, overview of Risk Assessment and Risk Management, relation to System Safety and Reliability Engineering; measures, representation, communication, and perception of risk; overview of use of risk assessment results in decision making; overview of Probabilistic Risk Assessment (PRA) process; detailed converge of PRA methods including (1) methods for risk scenario development such as identification of initiators, event sequence diagrams, event trees, causal modeling (fault trees, influence diagrams, and hybrid methods), and simulation approaches; (2) methods of risk scenario likelihood assessment, including quantitative and qualitative approaches, as well as uncertainty modeling and analysis. Also covers methods for risk modeling of system hardware behavior, physical phenomena, human behavior, software behavior, organizational environment, and external physical environment. Additional core topics include risk model integration and quantification (Boolean-based, binary decsion diagram, Bayesian belief networks, and hybrid methods), simulation-based Dynamic PRA methods (discrete and continuous) and several examples of large scale PRAs for space missions, nuclear power, aviation and medical systems.

0101	Mohammad Modarres, Clayton Smith Th 3:00pm - 5:40pm	Seats (Total: 17) JMP 2222
ER01	Mohammad Modarres, Clayton Smith Th 3:00pm - 5:40pm	Seats (Total: 15) ONLINE
RE01	Mohammad Modarres, Clayton Smith Th 3:00pm - 5:40pm	Seats (Total: 10) ONLINE

ENRE684 **Information Security**

Credits: 3

Grading Method: Regular, Audit

Also offered as: ENME442. Credit only granted for: ENME442, ENRE648J, or ENRE684. Formerly: ENRE648J.

This course is divided into three major components: overview, detailed concepts and implementation techniques. The topics to be covered are: general security concerns and concepts from both a technical and management point of view, principles of security, architectures, access control and multi-level security, trojan horses, covert channels, trap doors, hardware security mechanism, security models, security kernels, formal specifications and verification, networks and distribution systems and risk analysis.

0101	Michel Cukier TuTh 9:30am - 10:45am	Seats (Total: 5) JMP 2222
ER01	Michel Cukier Contact instructor or department for details.	Seats (Total: 10)
RE01	Michel Cukier Contact instructor or department for details.	Seats (Total: 5)

ENRE689E **Special Topics in Engineering Materials; Operations Research Models in Engineering**

Credits: 3

Grading Method: Regular, Audit

Also offered as ENME741. Credit only granted for: ENME738, ENME741, ENRE808E, ENCE603. Formerly: ENME738.

0101	Steven Gabriel W 8:30am - 11:00am	Seats (Total: 15) JMP 2120
ER01	Steven Gabriel Class time/details on ELMs	Seats (Total: 10) ONLINE
RE01	Steven Gabriel Class time/details on ELMs	Seats (Total: 10) ONLINE

ENRE799 **Master's Thesis Research**

Credits: 1-6

Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

ENRE898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

ENRE899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

ENSE Systems Engineering Fall 2018

ENSE621 **Systems Concepts, Issues, and Processes**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of ENGR-Institute for Systems Research. Also offered as: ENPM641. Credit only granted for: ENPM641 or ENSE621.

An introduction to the professional and academic aspects of systems engineering. Topics include: systems engineering activities, opportunities and drivers; case studies of systems failures; models of system lifecycle development; introduction to model-based systems engineering; representations for system structure, system behavior, system interfaces and systems intergration; reactive (even-driven) systems, systems-of-systems, measures of system complexity; visual modeling of engineering systems with UML and SysML; simplified procedures for engineering optimization and tradeoff analysis. Software tools for visual modeling of systems with UML and SysML. Students will complete a project for the front-end development of an engineering system using ULM/SysML.

0101	Tony Barber M 7:00pm - 9:40pm	Seats (Total: 13) JMP 2216
0201	Timothy Eveleigh M 7:00pm - 9:40pm	Seats (Total: 24) JMP 2222
DE01	Tony Barber Class time/details on ELMs	Seats (Total: 11) ONLINE
SG01	Tony Barber M 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SM01	Tony Barber M 7:00pm - 9:40pm	Seats (Total: 3) Location: TBA

ENSE623 **Systems Projects, Validation and Verification**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Prerequisite: ENSE622 and ENPM642; and permission of ENGR-Institute for Systems Research. Also offered as: ENPM643. Credit only granted for: ENPM643, ENSE610, or ENSE623.

This course builds on material covered in ENSE621/ENPM641 and ENSE622/ENPM642. Topics wil cover established and emerging approaches to system validation and verification including; inspection, testing, and traceability; writing validation and verification plans; formal approaches to sytem validation and verification; specification-based testing; role of logic in system validation and verification; automation models of computation, timed automation; model-based design and model checking for reactive systems. Students will be introduced to software tools for specification-based testing, model-based testing, model-based design and model checking. Students will work in teams on semester-long projects in systems engineering design and formal approaches to system validation and verification.

0101	Steven Biemer W 7:00pm - 9:40pm	Seats (Total: 25) JMP 2222
DE01	Steven Biemer Class time/details on ELMs	Seats (Total: 6) ONLINE
SG01	Steven Biemer W 7:00pm - 9:40pm	Seats (Total: 1) Location: TBA
SM01	Steven Biemer W 7:00pm - 9:40pm	Seats (Total: 3) Location: TBA

ENSE626 **System Life Cycle Analysis and Risk Management**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Prerequisite: Permission of ENGR-Institute for Systems Research. Also offered as: ENPM646.

This course covers topics related to estimating the costs and risks incurred through the lifetimes of projects, products and systems. In addition, treatment is given to methods that determine the drivers of costs and risks and facilitate determination of the most effective alternatives to reducing them. Also covered, are relevant analytic tools from probability and statistics and also important managerial and organizational concepts. Extensive use is made of case studies and examples from industry and government.

0101	Nidak Sumrean Tu 7:00pm - 9:40pm	Seats (Total: 22) JMP 2222

0201	EleanoraAnn Gianni W 7:00pm - 9:40pm	Seats (Total: 24) EGR 2116
DE01	Nidak Sumrean Class time/details on ELMs	Seats (Total: 4) ONLINE
SG01	Nidak Sumrean Tu 7:00pm - 9:40pm	Seats (Total: 2) Location: TBA
SM01	Nidak Sumrean Tu 7:00pm - 9:40pm	Seats (Total: 2) Location: TBA

ENSE698E **Special Topics in Systems Engineering; Sensor Systems**

Credits: 3 Grading Method: Regular, Audit

Also offered as ENCE688D. Credit only granted for ENCE688D or ENSE698E.

0101	Pamela Abshire, David Lovell TuTh 12:30pm - 1:45pm	Seats (Total: 20) EGR 3102

ENSE699 **Directed Study in Systems Engineering**

(Perm req)

Credits: 1-3 Grading Method: Sat-Fail

Directed study in Systems Engineering.

Contact department for information to register for this course.

ENSE799 **Systems Engineering Thesis; Masters Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

The application of systems engineering concepts, principles, and theories will be applied to the Master's Thesis project. Project/thesis work will be defined and selected early in student's program and supervised by a university faculty mentor.

Contact department for information to register for this course.

ENSP Environmental Science and Policy Fall 2018

ENSP101 **Introduction to Environmental Science**

Credits: 3 Grading Method: Regular CORE: PS General Education: DSNS

One of two required courses that introduce students to the topics studied and methods employed in environmental science and policy. Emphasis on scientific ways of knowing; the systems, cycles, flows, and interfaces that characterize the atmosphere, lithosphere, hydrosphere, and biosphere; the analysis of human impacts on these systems; and the nature of scientific uncertainty and methods of quantifying environmental processes.

0101	Annette Spivy TuTh 11:00am - 12:15pm Th 2:00pm - 2:50pm	Seats (Total: 25) JMZ 0220 MTH 0104	Discussion
0102	Annette Spivy TuTh 11:00am - 12:15pm F 10:00am - 10:50am	Seats (Total: 24) JMZ 0220 PLS 1146	Discussion
0103	Annette Spivy TuTh 11:00am - 12:15pm F 1:00pm - 1:50pm	Seats (Total: 24) JMZ 0220 SYM 0215	Discussion
0104	Annette Spivy TuTh 11:00am - 12:15pm F 1:00pm - 1:50pm	Seats (Total: 24) JMZ 0220 PLS 1184	Discussion
0105	Annette Spivy TuTh 11:00am - 12:15pm Th 2:00pm - 2:50pm	Seats (Total: 25) JMZ 0220 EGR 1102	Discussion
0106	Annette Spivy TuTh 11:00am - 12:15pm F 10:00am - 10:50am	Seats (Total: 24) JMZ 0220 EGR 3106	Discussion
0107	Annette Spivy TuTh 11:00am - 12:15pm Th 2:00pm - 2:50pm	Seats (Total: 24) JMZ 0220 EGR 2116	Discussion
FC01	Annette Spivy TuTh 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 32) AJC 2134	

ENSP330 **Introduction to Environmental Law**

(Perm req) Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Permission of AGNR-Dean-Environmental Science & Policy Program. Recommended: ENSP101; and ENSP102. Restriction: Junior standing or higher. Credit only granted for: ENSP330 or ENSP399A. Formerly: ENSP399A.

An overview of environmental law, from its common law roots to its role in the modern regulatory state, including an examination of major federal environment statutes and the policy debates inherent in them. Other areas covered include civil and criminal enforcement, standing to sue, land use control, and regulatory takings.

0101	Joanna Goger	Seats (Total: 35)
	TuTh 11:00am - 12:15pm	PHY 1219

ENSP340 **Water: Science, Ethics, and Policy**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENSP101 and ENSP102. Restriction: Must have earned a minimum of 60 credits; and permission of instructor. Credit only granted for: ENSP340 or ENSP399B. Formerly: ENSP399B.

Exploration of the science, policy, and ethical aspects of water resource protection and management. Focus on water pollution, water availability, ecosystems, and sustainability

0101	Caroline Boules	Seats (Total: 25)
	TuTh 3:30pm - 4:45pm	JMZ 2207

ENSP386 **Internship**

(Perm req)

Credits: 3-6 Grading Method: Regular

Restriction: Must have internship proposal approved by the concentration advisor, the director of ENSP and the student's internship sponsor.

Contact department for information to register for this course.

ENSP399 **Special Topics in Environmental Science and Policy**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

A substantive and specialized examination of contemporary issues in environmental science or policy.

Contact department for information to register for this course.

ENSP399R **Special Topics in Environmental Science and Policy; Research**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

A substantive and specialized examination of contemporary issues in environmental science or policy.

0601	Annette Spivy Contact instructor or department for details.	Seats (Total: 10)
1001	Jennifer Murrow Contact instructor or department for details.	Seats (Total: 10)

ENSP400 **Capstone in Environmental Science and Policy**

(Perm req)

Credits: 3 Grading Method: Regular CORE: CS General Education: DSSP

Prerequisite: ENSP101; and ENSP102. Restriction: Senior standing; or permission of the Director of ENSP. And must be in Environmental Science and Policy program.

Integration of physical, biological, and social sciences with applications to environmental science and policy. Problem-solving and multi-disciplinary case study evaluations pertinent to contemporary and future issues related to the environment.

0101	Caroline Boules TuTh 12:30pm - 1:45pm	Seats (Total: 35) AJC 2119
0102	Joanna Goger TuTh 12:30pm - 1:45pm	Seats (Total: 35) AJC 2134

ENSP499 **Honors Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Individual research, thesis, and oral defense. The research project will be conducted under the supervision of a faculty member.

Contact department for information to register for this course.

ENST Environmental Science and Technology Fall 2018

ENST200 **Fundamentals of Soil Science**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit CORE: LL General Education: DSNL

Corequisite: CHEM131 and CHEM132; or permission of AGNR-Environmental Science & Technology department. Credit only granted for: ENST200 or NRSC200. Formerly: NRSC200.

Study and management of soils as natural bodies, media for plant growth and ecosystem components. Morphology, composition, formation, and conservation of soils. Chemical, biological, and physical properties are discussed in relation to the production of plants, the functioning of hydrologic and nutrient cycles, the protection of environmental quality, and engineering uses of soils.

0101	Raymond Weil TuTh 3:30pm - 4:45pm Tu 5:00pm - 7:50pm	Seats (Total: 25) HJP 0226 HJP 0210	 Lab
0102	Raymond Weil TuTh 3:30pm - 4:45pm W 5:00pm - 7:50pm	Seats (Total: 20) HJP 0226 HJP 0210	 Lab
0103	Raymond Weil TuTh 3:30pm - 4:45pm Th 5:00pm - 7:50pm	Seats (Total: 20) HJP 0226 HJP 0210	 Lab
0104	Raymond Weil TuTh 3:30pm - 4:45pm Tu 9:30am - 12:20pm	Seats (Total: 20) HJP 0226 HJP 0210	 Lab
0105	Raymond Weil TuTh 3:30pm - 4:45pm W 9:00am - 11:50am	Seats (Total: 20) HJP 0226 HJP 0210	 Lab
0106	Raymond Weil TuTh 3:30pm - 4:45pm Th 9:30am - 12:20pm	Seats (Total: 20) HJP 0226 HJP 0210	 Lab

ENST233 **Introduction to Environmental Health**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSNS

Examines how humans are affected by the quality of our air, water, soil and food supply as well as how human activities alter these survival necessities. Students will learn how the evolution and prosperity of human populations have resulted in degradation of our environment and the impact of environmental degradation on the health of people. The implications of individual and collective choices for sustainable food production, population management, and resource utilization will be explored.

0101	Lance Yonkos TuTh 9:30am - 10:45am W 1:00pm - 1:50pm	Seats (Total: 40) ANS 0408 ANS 0422	 Discussion

0102	Lance Yonkos TuTh 9:30am - 10:45am W 2:00pm - 2:50pm	Seats (Total: 40) ANS 0408 ANS 0422	 Discussion

ENST281 **Computer Aided Design in Ecology**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in Environmental Sci & Tech program.

Basics of Computer Aided Drawing (CAD) applied to design of constructed ecosystems. Use of campus stormwater wetland as case study.

0101	Jose-Luis Izursa M 2:00pm - 2:50pm M 3:00pm - 6:00pm	Seats (Total: 20) ANS 0422 ANS 0509	 Lab
0102	Jose-Luis Izursa M 2:00pm - 2:50pm Tu 3:30pm - 6:30pm	Seats (Total: 20) ANS 0422 ANS 0509	 Lab

ENST282 **Ecological Innovation and Entrepreneurship**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: ENST282 or ENST499K. Formerly: ENST499K.

Ecotechnology innovation is taught with design thinking, which uses an iterative cycle of developing customer empathy, learning ecological technology, appreciating environmental stewardship, brainstorming, rapid prototyping, user experience, testing and redesign. Environment entrepreneurship is based on the Lean Startup process, which uses customer discovery, encourages quick product development, reduces start-up costs, tests ideas quickly, and employs designed experiments. A multidisciplinary academic setting embraces designing, building, testing and marketing novel technologies that enhance the environmental needs of humans. Students will learn in an active environment that requires working creatively, collaboratively, diligently, and precisely to create a business model and tangible prototype for a new commercial product.

0101	David Tilley MWF 10:00am - 10:50am	Seats (Total: 20) ANS 0422	

ENST301 **Field Soil Morphology I**

(Perm req)

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of AGNR-Environmental Science & Technology department. Formerly: ENST308.

This is a field-oriented course that introduces students to the techniques used to (1) describe soil morphology, and site and profile characteristics, (2) make land use interpretations based on soil characteristics, and (3) classify soils. This class is designed to prepare students for the Regional Collegiate Soil Judging Contest and for students to gain experience in the description and interpretation of soils in the field.

0101	Martin Rabenhorst	Seats (Total: 7)
	Contact instructor or department for details.	

ENST302 **Field Soil Morphology II**

(Perm req)

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENST301. Restriction: Permission of AGNR-Environmental Science & Technology department. Formerly: ENST308.

This is the second field-oriented course in a three course sequence that provides intermediate training for students in the techniques used to (1) describe soil morphology, and site and profile characteristics, (2) make land use interpretations based on soil characteristics, and (3) classify soils. This class is designed to prepare students for the Regional Collegiate Soil Judging Contest and for students to gain experience in the description and interpretation of soils in the field.

0101	Martin Rabenhorst	Seats (Total: 7)
	Contact instructor or department for details.	

ENST303 **Field Soil Morphology III**

(Perm req)

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENST302. Restriction: Permission of AGNR-Environmental Science & Technology department. Formerly: ENST308.

This is the third field-oriented course in a three course sequence that provides intermediate training for students in the techniques used to (1) describe soil morphology, and site and profile characteristics, (2) make land use interpretations based on soil characteristics, and (3) classify soils. This class is designed to prepare students for the Regional Collegiate Soil Judging Contest and for students to gain experience in the description and interpretation of soils in the field.

0101	Martin Rabenhorst	Seats (Total: 15)
	Contact instructor or department for details.	

ENST333 **Ecosystem Health and Protection**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENST233. Restriction: Must be in one of the following programs (Environmental Sci & Tech: Ecological Tech Design; Environmental Sci & Tech: Environmental Health; Environmental Sci & Tech: Soil & Watershed Science; Environmental Sci & Tech: Natural Resources Mgmt; Environmental Sci & Tech). Credit only granted for: ENST499A or ENST333. Formerly: ENST499A.

Discussion of the philosophies, principles, and practices for assessing ecosystem health with emphasis on an ecosystem perspective rather than a human health perspective. Degradation associated with human activities will be emphasized. Topics will range from local to regional to global issues, including a discussion on global warming and its possible impacts on ecosystems. Concepts will be clarified using case histories from the Chesapeake Bay watershed.

0101	Meredith Bohannon	Seats (Total: 45)
	TuTh 11:00am - 12:15pm	ANS 0422

ENST360 **Ecosystem Ecology**

Credits: 4

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI160 and BSCI161; or BSCI106. Restriction: Must be in one of the following programs (Environmental Sci & Tech: Ecological Tech Design; Environmental Sci & Tech: Environmental Health; Environmental Sci & Tech: Soil & Watershed Science; Environmental Sci & Tech: Natural Resources Mgmt; Environmental Sci & Tech).

The study of ecology has a long and interesting history, from early society's efforts to understand and alter their environment as a matter of survival to the challenges the modern world is facing that are global in scale. Through the course text, distributed supplemental chapter readings and an understanding of the scientific literature, this course will cover the essential concepts and principles of ecosystem ecology as well as its history and past and present controversies. Several of the basic methods and tools of field research and the applied management of ecosystems will be discussed and demonstrated with several field excursions in the natural environs of the DC area. Central to this course will be the understanding that modern human society is an integral part of nature, with the power to impact and influence elements of the natural world at multiple scales. An analysis of policy implications for the biosphere will be discussed.

The study of ecology has a long and interesting history, from early society's efforts to understand and alter their environment as a matter of survival to the challenges the modern world is facing that are global in scale. Through the course text, distributed supplemental chapter readings and an understanding of the scientific literature, this course will cover the essential concepts and principles of ecosystem ecology as well as its history and past and present controversies. Several of the basic methods and tools of field research and the applied management of ecosystems will be discussed and demonstrated with several field excursions in the natural environs of the DC area. Central to this course will be the understanding that modern human society is an integral part of nature, with the power to impact and influence elements of the natural world at multiple scales. An analysis of policy implications for the biosphere will be discussed.

0101	Mitchell Pavao-Zuckerman MWF 12:00pm - 12:50pm M 1:00pm - 1:50pm	Seats (Total: 35) KEB 1200 ANS 0402	Discussion
0102	Mitchell Pavao-Zuckerman MWF 12:00pm - 12:50pm W 1:00pm - 1:50pm	Seats (Total: 35) KEB 1200 EGR 1104	Discussion

ENST388 **Honors Thesis Research**

Credits: 3-6 Grading Method: Regular, Pass-Fail, Audit

Undergraduate honors thesis research conducted under the direction of an AGNR faculty member in partial fulfillment of the requirements of the College of AGNR Honors Program. The thesis will be defended to a faculty committee.

2201	Martin Rabenhorst Contact instructor or department for details.	Seats (Total: 1)
2905	Stephanie Yarwood Contact instructor or department for details.	Seats (Total: 1)

ENST389 **Internship**

(Perm req)

Credits: 3 Grading Method: Sat-Fail

Credit will be granted for practical work carried out by students place in work environment related to their stated career goals. Students must do an in-depth study in some portion of the work experience and produce a special project or report related to this study. A student work log is also recommended. An evaluation from the external supervisor of the project will be required. Credit arranged with supervising faculty member.

0101	Patrick Kangas	Seats (Total: 50)
	Contact instructor or department for details.	

ENST410 **Ecosystem Services: An Integrated Analysis**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENST360 or BSCI361; or permission of instructor. Restriction: Must be in one of the following programs (Environmental Sci & Tech: Ecological Tech Design; Environmental Sci & Tech; Environmental Sci & Tech: Natural Resources Mgmt; Environmental Sci & Tech: Soil & Watershed Science; Environmental Sci & Tech: Environmental Health).

The importance of our ecosystems and the services they provide will be discussed. Basic principles used to analyze ecosystem services will be discussed and applied using case studies & field exercises. Forestland, wetlands and our marine resources are increasingly recognized for their ecosystem services provided to society, to include clean air and water, wildlife habitat, biodiversity, carbon storage and pollination services. This course will prepare students to deal with the complex issues involved in understanding those and other ecosystem services and their importance to society and environmental sustainability. Slowly, new markets are emerging for these services. Students will analyze the ecological, policy and financial dimensions of enhancing, restoring, and sustaining ecosystem services. New and on-going government programs and private business ventures will be discussed.

0101	Jose-Luis Izursa	Seats (Total: 70)
	TuTh 11:00am - 12:15pm	ATL 2324

ENST411 **Principles of Soil Fertility**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENST200; or students who have taken courses with comparable content may contact the department. Also offered as: ENST611. Credit only granted for: ENST411 or NRSC411. Formerly: NRSC411.

Soil factors affecting plant growth and quality with emphasis on the bio-availability of mineral nutrients. The management of soil systems to enhance plant growth by means of crop rotations, microbial activities, and use of organic and inorganic amendments.

0101	Raymond Weil	Seats (Total: 15)
	TuTh 12:30pm - 1:45pm	ANS 1420

ENST414 **Soil Morphology, Genesis and Classification**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENST200. Credit only granted for: ENST414 or NRSC414. Formerly: NRSC414.

Processes and factors of soil genesis. Taxonomy of soils of the world by U.S. System. Soil morphological characteristics, composition, classification, survey and field trips to examine and describe soils.

0101	Brian Needelman	Seats (Total: 20)	
	MWF 10:00am - 10:50am	ATL 2416	
	M 3:00pm - 6:00pm	HJP 0210	Lab

ENST415 Renewable Energy

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHEM131, PHYS121, and MATH113; or permission of AGNR-Environmental Science & Technology department. Restriction: Must be in a major within AGNR-Environmental Science & Technology department.

An overview of renewable energy technologies and their current applications. Emphasis will be placed on technological readiness, efficiency and sustainability of renewable energy alternatives. Technologies include solar thermal, photovoltaics, biodiesel, ethanol, anaerobic digestion, wind, hydroelectric, and microbial fuel cells.

0101	Amro Hassanein	Seats (Total: 40)
	MWF 11:00am - 11:50am	ANS 0422

ENST417 Soil Hydrology and Physics

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENST200; and (MATH113 or MATH115). Or permission of instructor. Credit only granted for: ENST417 or NRSC417. Formerly: NRSC417.

A study of soil water interactions: the hydrologic cycle; the unique properties of water and soil; the soil components and their interactions; the field water cycle; transport processes involving water, heat and solutes; human effects on soil and groundwater; as well as the measurement, prediction, and control of the physical processes taking place in and through the soil.

0101	Robert Hill	Seats (Total: 35)
	TuTh 11:00am - 12:15pm	JMP 1202

ENST422 Soil Microbial Ecology

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENST200; or 1 course in BCHM; or must have completed a course in microbiology; or students who have taken courses with comparable content may contact the department. Also offered as: ENST622. Credit only granted for: ENST422 or NRSC422. Formerly: NRSC422.

The interdisciplinary study of soil microorganisms and their interactions with the mineral matrix; resulting in processes such as nutrient cycling, decontamination, and natural product production. We will focus on the diversity of soil communities, their survival strategies, and the new strategies used to study these communities.

0101	Stephanie Yarwood	Seats (Total: 25)
	TuTh 2:00pm - 3:15pm	ATL 2428

ENST434 **Toxic Contaminants: Sources, Fate, and Effects**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENST333 and ENST334.

Study of the release to the environment, transport through natural compartments, persistence and ultimate fate of various classes of contaminants produced as a result of human activities. Topics will culminate in discussions of impacts to wildlife and human health. Students should emerge with a practical appreciation of the actual risks from exposure to a variety of environmental contaminants and an understanding of the environmental and human health implications of continuing the contaminating activities.

0101	Lance Yonkos	Seats (Total: 25)
	TuTh 5:00pm - 6:15pm	ANS 0422

ENST441 **Sustainable Agriculture**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: ENST441 or NRSC441. Formerly: NRSC441.

Environmental, social and economic needs for alternatives to the conventional, high-input farming systems which currently predominate in industrial countries. Strategies and practices that minimize the use of non-renewable resources.

0101	Raymond Weil	Seats (Total: 40)
	TuTh 9:30am - 10:45am	ANS 0422

ENST450 **Wetland Ecology**

Credits: 3 Grading Method: Regular

Prerequisite: BIOM301; or permission of AGNR-Environmental Science & Technology department. Also offered as: ENST650. Credit only granted for: ENST450 or MEES650.

Plant and animal communities, biogeochemistry, and ecosystem properties of wetlands. Lectures are supplemented by weekend or Friday field trips (1-3 days total during the semester) and in-class labs that emphasize collection and analysis of field data on wetland vegetation, soil, and hydrology. Wading boots (at least hip length) are strongly recommended.

0101	Andrew Baldwin	Seats (Total: 20)
	TuTh 2:00pm - 3:15pm	ANS 0422

ENST460 **Principles of Wildlife Management**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed two semesters of biology laboratory; and (ENST360; or BSCI361). Or permission of AGNR-Environmental Science & Technology department.

Ecological principles and requirements of wildlife as basis for management, and introduction to the scientific literature. Conflicts in wildlife management, government administration of wildlife resources, legislation, and history of the wildlife management profession.

0101	Jennifer Murrow	Seats (Total: 40)
	TuTh 12:30pm - 1:45pm	ANS 0412

ENST471 **Capstone I**

(Perm req)

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

This course will be conducted in a group discussion format that will focus on professional project proposal preparation and presentation, critical evaluation of environmental science research, professional development, and career planning. Students will develop and present original project proposals and critique project proposals presented by others.

0101	Michael Kearney	Seats (Total: 90)
	W 1:00pm - 3:00pm	BPS 1243

ENST487 **Environmental Conflicts and Decision Making**

Credits: 2 Grading Method: Regular

Restriction: Senior standing. And must be in one of the following programs (Environmental Sci & Tech: Natural Resources Mgmt; Environmental Sci&Pol-Wildlife Ecology & Mgmt) ; or permission of AGNR-Environmental Science & Technology department.

Study major cases which focus on environmental science with concentration on the role and techniques of negotiation, collaborative decision making, and adaptive resource management as an environmental conflict resolution process.

0101	Jennifer Murrow	Seats (Total: 20)
	M 1:00pm - 2:50pm	BPS 1232

ENST489 **Research Experience**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An advanced research-based course in the field of environmental science and technology.

Contact department for information to register for this course.

ENST499 **Special Topics in Environmental Science and Technology**

(Perm req)

Credits: 1-4 Grading Method: Regular, Pass-Fail, Audit

An independent study, and/or lecture, and/or laboratory series organize to study a selected phase of Environmental Science and Technology not covered by existing courses. Credit arranged with supervising faculty member.

Contact department for information to register for this course.

ENST499L **Special Topics in Environmental Science and Technology; Ground Water Use in the Developing World**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

An independent study, and/or lecture, and/or laboratory series organize to study a selected phase of Environmental Science and Technology not covered by existing courses. Credit arranged with supervising faculty member.

Overview of ground water as a water resource, its availability, quality and extraction in various developing countries. The role of a consultant in adapting modern technologies to developing ground water as a viable water resource.

0101	Yaron Sternberg	Seats (Total: 40)
	M 12:00pm - 12:50pm	ANS 0422

ENST499X **Special Topics in Environmental Science and Technology; Soil Science**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

An independent study, and/or lecture, and/or laboratory series organize to study a selected phase of Environmental Science and Technology not covered by existing courses. Credit arranged with supervising faculty member.

Contact department for information to regsiter for this course.

0101	Raymond Weil Contact instructor or department for details.	Seats (Total: 5)

ENST499Y **Special Topics in Environmental Science and Technology; College Teaching**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

An independent study, and/or lecture, and/or laboratory series organize to study a selected phase of Environmental Science and Technology not covered by existing courses. Credit arranged with supervising faculty member.

0101	Raymond Weil Contact instructor or department for details.	Seats (Total: 2)
1508	Reginal Harrell Contact instructor or department for details.	Seats (Total: 2)
2104	Shannon Pederson Contact instructor or department for details.	Seats (Total: 2)
2804	Jose-Luis Izursa Contact instructor or department for details.	Seats (Total: 2)

ENST602 **Research Principles and Methodology in Environmental Scienceand Technolgy**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Restriction: Must be in Environmental Sci & Tech program.

Fundamental research strategies and methods of investigation in Environmental Science and Technology including field and laboratory procedures.

0101	Jennifer Murrow TuTh 11:00am - 12:15pm	Seats (Total: 15) ANS 1420

ENST608 **Research Methods**

(Perm req)

Credits: 1-4

Grading Method: Regular, Audit

Development of research viewpoint by detailed study and report on crop and soil research of the Maryland Agriculture Experiment Station or review and discussion of literature on specific agricultural problems or new research techniques.

Contact department for information to register for this course.

ENST611 **Advanced Principles of Soil Fertility**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: ENST200; or students who have taken courses with comparable content may contact the department. Also offered as: ENST411. Credit only granted for: ENST411, NRSC411, or ENST611.

Soil factors affecting plant growth and quality with emphasis on the bio-availability of mineral nutrients. The management of soil systems to enhance plant growth by means of crop rotations, microbial activities, and use of organic and inorganic amendments.

0101	Raymond Weil	Seats (Total: 10)
	TuTh 12:30pm - 1:45pm	ANS 1420

ENST622 **Advanced Soil Microbial Ecology**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: ENST200; or 1 course in BCHM; or must have completed one course in microbiology; or students who have taken courses with comparable content may contact the department. Also offered as: ENST422. Credit only granted for: ENST422 or ENST622.

The interdisciplinary study of soil microorganisms and their interactions with the mineral matrix; resulting in processes such as nutrient cycling, decontamination, and natural product production. We will focus on the diversity of soil communities, their survival strategies, and the new strategies used to study these communities.The course will include an examination of current literature in this field.

0101	Stephanie Yarwood	Seats (Total: 9)
	TuTh 2:00pm - 3:15pm Contact instructor or department for details.	ATL 2428

ENST650 **Advanced Wetland Ecology**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: BIOM301; or permission of AGNR-Environmental Science & Technology department. Also offered as: ENST450, MEES650. Credit only granted for: ENST450, ENST650, or MEES650. Additional information: Wading boots (at least hip length) are strongly recommended.

Plant and animal communities, biogeochemistry, and ecosystem properties of wetland systems. In-class laboratory will emphasize collection and analysis of field data on wetland vegetation, soil, and hydrology.

Course requires two Saturday field trips.

0101	Andrew Baldwin TuTh 2:00pm - 3:15pm	Seats (Total: 10) ANS 0422

ENST689 **Special Topics**

Credits: 1-3 Grading Method: Regular, Audit

Credit according to time scheduled and organization of the course. Organized as a lecture series on a specialized advanced topic.

1201	Andrew Baldwin Contact instructor or department for details.	Seats (Total: 5)
1205	William Bowerman Contact instructor or department for details.	Seats (Total: 5)
1401	Frank Coale Contact instructor or department for details.	Seats (Total: 5)
1501	Gary Felton Contact instructor or department for details.	Seats (Total: 5)
1508	Reginal Harrell Contact instructor or department for details.	Seats (Total: 5)
1601	Robert Hill Contact instructor or department for details.	Seats (Total: 5)
1801	Patrick Kangas Contact instructor or department for details.	Seats (Total: 5)
1802	Stephanie Lansing Contact instructor or department for details.	Seats (Total: 5)

1803	Paul Leisnham Contact instructor or department for details.	Seats (Total: 5)
1805	Michael Kearney Contact instructor or department for details.	Seats (Total: 5)
2001	Bahram Momen Contact instructor or department for details.	Seats (Total: 5)
2005	Jennifer Murrow Contact instructor or department for details.	Seats (Total: 5)
2101	Brian Needelman Contact instructor or department for details.	Seats (Total: 5)
2102	Masoud Negahban-Azar Contact instructor or department for details.	Seats (Total: 5)
2103	Mitchell Pavao-Zuckerman Contact instructor or department for details.	Seats (Total: 5)
2105	Wendy Peer Contact instructor or department for details.	Seats (Total: 5)
2201	Martin Rabenhorst Contact instructor or department for details.	Seats (Total: 3)
2601	David Tilley Contact instructor or department for details.	Seats (Total: 5)
2701	Raymond Weil Contact instructor or department for details.	Seats (Total: 5)
2805	Gurpal Toor Contact instructor or department for details.	Seats (Total: 5)
2905	Stephanie Yarwood Contact instructor or department for details.	Seats (Total: 5)
3001	Lance Yonkos Contact instructor or department for details.	Seats (Total: 2)

ENST689I **Special Topics; Molecular Techniques in Ecotoxicology**

Credits: 2

Grading Method: Regular, Audit

Credit according to time scheduled and organization of the course. Organized as a lecture series on a specialized advanced topic.

0101	Lance Yonkos	Seats (Total: 1)
	Contact instructor or department for details.	

ENST689J **Special Topics; Valuing Ecosystem Services**

Credits: 3

Grading Method: Regular, Audit

Credit according to time scheduled and organization of the course. Organized as a lecture series on a specialized advanced topic.

0101	Jose-Luis Izursa	Seats (Total: 6)
	TuTh 11:00am - 12:15pm	ATL 2324

ENST689O **Special Topics; Advances in Research, Invasive Plants**

Credits: 1

Grading Method: Regular, Audit

Credit according to time scheduled and organization of the course. Organized as a lecture series on a specialized advanced topic.

0101	Wendy Peer	Seats (Total: 20)
	M 4:00pm - 4:50pm	ANS 1420

ENST689X **Special Topics; Methods in University Teaching**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Credit according to time scheduled and organization of the course. Organized as a lecture series on a specialized advanced topic.

0101	Raymond Weil	Seats (Total: 1)
	Contact instructor or department for details.	

ENST689Y **Special Topics; Advances in Research, Plant Membrane Biology**

Credits: 2

Grading Method: Regular, Audit

Credit according to time scheduled and organization of the course. Organized as a lecture series on a specialized advanced topic.

0101	Wendy Peer, Angus Murphy	Seats (Total: 10)
	Contact instructor or department for details.	

ENST689Z **Special Topics; Introductory University Instruction**

Credits: 1-3 Grading Method: Regular, Audit

Credit according to time scheduled and organization of the course. Organized as a lecture series on a specialized advanced topic.

2905	Stephanie Yarwood	Seats (Total: 1)
	Contact instructor or department for details.	

ENST789 **Advances in Research**

Credits: 1-4 Grading Method: Regular, Audit

A study of recent advances in agronomy research.

Contact department for information to register for this course.

ENST798 **Graduate Seminar**

Credits: 1 Grading Method: Regular, Audit

Designed to provide a venue for interactive discussion between ENST graduate students and other members of the ENST community regarding thesis/dissertation research planned or conducted as part of the students graduate program.

0101	Stephanie Yarwood, Martin Rabenhorst	Seats (Total: 40)
	W 12:00pm - 12:50pm	ANS 0408

ENST799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

ENST898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

ENST899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

ENTM Entomology Fall 2018

ENTM699K **Advanced Entomology; Biological Sciences Teaching and Learning in Higher Education**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Credit and prerequisites to be determined by the department. First and second semesters. Studies of minor problems in morphology, physiology, taxonomy and applied entomology, with particular reference to the preparation of the student for individual research.

Also offered as BIOL608K, CBMG699K, and CHEM608K. Credit will be granted for only one of the following: BIOL608K, CBMG699K, CHEM608K, or ENTM699K.

0101	Gili Ad-Marbach	Seats (Total: 12)
	W 12:00pm - 1:40pm	BPS 1208

ENTM699M **Advanced Entomology; Tools & Techniques in Genomics Research for the Applied Biologist-Part I**

Credits: 1 Grading Method: Regular

Credit and prerequisites to be determined by the department. First and second semesters. Studies of minor problems in morphology, physiology, taxonomy and applied entomology, with particular reference to the preparation of the student for individual research.

Contact department or instructor for details.

0101	Megan Fritz	Seats (Total: 7)
	Meets August 27, 2018 - October 13, 2018	
	Contact instructor or department for details.	

ENTM699N **Advanced Entomology; Tools & Techniques in Genomics Research for the Applied Biologist-Part II**

Credits: 1 Grading Method: Regular

Credit and prerequisites to be determined by the department. First and second semesters. Studies of minor problems in morphology, physiology, taxonomy and applied entomology, with particular reference to the preparation of the student for individual research.

Contact department or instructor for details; open to students that have completed ENTM699M.

0101	Megan Fritz **Meets October 14, 2018 - December 10, 2018** Contact instructor or department for details.	Seats (Total: 8)

ENTM699R **Advanced Entomology; Concepts in Organic Pest Management**

Credits: 1 Grading Method: Regular, Audit

Credit and prerequisites to be determined by the department. First and second semesters. Studies of minor problems in morphology, physiology, taxonomy and applied entomology, with particular reference to the preparation of the student for individual research.

0101	Cerruti Hooks Contact instructor or department for details.	Seats (Total: 24)

ENTM701 **Effective Teaching: TA Training**

(Perm req)

Credits: 1 Grading Method: Regular

Also offered as: BISI701. Credit only granted for: ENTM701, BISI688Z, CBMG688Z, or BIOL701.

A survey and discussion of topics pertinent to graduate students who ar first-time teaching assistants, including teaching responsibilities and policies, effective techniques of lecturing and leading discussions, composing and grading quizzes and exams, cultural diversity, time management, and development of a teaching portfolio. All teaching assistants in the College of Life Sciences must take a 701 TA training course in one of the departments.

0101	Bretton Kent Tu 6:00pm - 8:00pm	Seats (Total: 20) BPS 1208

ENTM710 **Insect Biodiversity, Physiology and Ecology**

Credits: 3 Grading Method: Regular

A survey course discussing the various families of insects, discuss thing their anatomy and physiology, and their role in ecological systems. Students will examine the ecological and evolutionary perspectives on interactions between plants and vertebrate and invertebrate animals. Further, it explores the applied consequences of animal-plant interactions to agroecology and conservation biology. These goals are achieved by reviewing the theoretical underpinnings of animal-plant interactions, and exposing students to research literature on animal-plant interactions.

Must be in Applied Entomology program. For permission to enroll, must be admitted into a term-based calendar graduate program. Contact oes@umd.edu.

Click here for program information.

PLE1	Marcia Shofner **Meets August 27, 2018 - November 16, 2018** Class time/details on ELMs	Seats (Total: 8) ONLINE

ENTM745 **Bee Biology and Beekeeping**

Credits: 3 Grading Method: Regular

Students will be introduced to the anatomy and physiology of the honey bee colony with emphasis on how to use this information to best manage honey bee colonies.

Must be in Applied Entomology program. For permission to enroll, must be admitted into a term-based calendar graduate program. Contact oes@umd.edu.

Click here for program information.

PLE1	Kelly Kulhanek, Anthony Nearman, Dennis vanEngelsdorp **Meets August 27, 2018 - November 16, 2018** Class time/details on ELMs	Seats (Total: 8) ONLINE

ENTM756 **Insect Diseases and Pathology**

Credits: 3 Grading Method: Regular

Credit only granted for: ENTM715 or ENTM756. Formerly: ENTM715.

Integrates aspects of biochemistry, molecular biology and evolution theory with ecology using pathogens of insects as a model. The various biotic (living) and abiotic (nonliving) factors that can contribute to plant problems. Explores the direction and goals of innovation in microbial biocontrol as well as the effect of social criticism and considerations of environmental impact on attempts to introduce engineered microorganisms.

Must be in Applied Entomology program. For permission to enroll, must be admitted into a term-based calendar graduate program. Contact oes@umd.edu.

Click here for program information.

PLE1	Raymond StLeger	Seats (Total: 8)	
	Meets August 27, 2018 - November 16, 2018		
	Class time/details on ELMs	ONLINE	

ENTM788C **Entomological Topics; Colloquium**

Credits: 1-3 Grading Method: Regular, Audit

One lecture or one two-hour laboratory period a week for each credit hour. Lectures, group discussions or laboratory sessions on selected topics such as: aquatic insects, biological control of insects, entomological literature, forest entomology, history of entomology, insect biochemistry, insect embryology, immature insects, insect behavior, insect communication, principles of entomological research.

0101	Judith Wexler	Seats (Total: 45)	
	F 12:00pm - 12:50pm	PLS 1130	
	F 1:00pm - 1:50pm	PLS 1130	Discussion

ENTM798 **Topic Seminar**

Credits: 1 Grading Method: Regular, Audit

Discussion and presentation of current research and literature.

Contact department for information to register for this course.

ENTM799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

ENTM898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

ENTM899 **Doctoral Dissertation Research**

(Perm req) Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

ENTS Telecommunications Fall 2018

ENTS622 **Introduction to Digital Communication Systems**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in Telecommunications (Master's) program; or permission of ENGR-Electrical & Computer Engineering department. Credit only granted for: ENTS622 or ENTS689B. Formerly: ENTS689B.

Principles of analog and digital communication systems design. Analysis of the performance and relative merits of different modulation and demodulation, signal processing, filtering and error control schemes in communication systems. Also provides an understanding of the design of modern digital communication systems.

0101	Alejandra Mercado M 5:30pm - 8:15pm W 5:30pm - 8:15pm	Seats (Total: 16) SPH 0308 AVW 1362	 Lab
0102	Alejandra Mercado M 5:30pm - 8:15pm Tu 9:00am - 11:45am	Seats (Total: 16) SPH 0308 AVW 1362	 Lab
0103	Alejandra Mercado M 5:30pm - 8:15pm Th 9:00am - 11:45am	Seats (Total: 8) SPH 0308 AVW 1362	 Lab
0201	Alejandra Mercado M 9:00am - 11:45am Th 9:00am - 11:45am	Seats (Total: 8) ITV 1111 AVW 1362	 Lab
0202	Alejandra Mercado M 9:00am - 11:45am M 2:00pm - 4:45pm	Seats (Total: 16) ITV 1111 AVW 1362	 Lab
0203	Alejandra Mercado M 9:00am - 11:45am F 1:00pm - 3:45pm	Seats (Total: 16) ITV 1111 AVW 1362	 Lab

ENTS625 **Management and Organizational Behavior in the Telecommunications Industry**

Credits: 3

Grading Method: Regular, Audit

Roles of the general manager in: determining target markets and designing strategies for them; formulating and implementing corporate and business level strategies; and staffing, developing, and managing human resources and coordinating them with the organization's financial and physical resources. Also emphasizes the building of interpersonal skills with respect to the selection of members for work teams and team formation, leadership of teams toward the achievement of strategic goals and total quality, the development and motivation of team members, and the evaluation of team and individual performance.

Restricted to ENTS majors. All non-major students will need to obtain department permission.

0101	Paulo Prochno Th 5:30pm - 8:15pm	Seats (Total: 40) SQH 1105
0201	Paulo Prochno Th 2:00pm - 4:45pm	Seats (Total: 40) SQH 1105

ENTS629A **Special Topics in Cybersecurity; System Security**

Credits: 3

Grading Method: Regular, Audit

Selected topics of current importance in cybersecurity.

0101	Fazlul Kabir W 5:30pm - 8:15pm	Seats (Total: 30) EGR 0135

ENTS630 **The Economics of International Telecommunications**

Credits: 3

Grading Method: Regular, Audit

Restriction: Must be in Telecommunications (Master's) program.

Basic microeconomic principles used by telecommunications firms, including supply and demand, elasticity, costs, productivity, pricing, market structure and competitive implications of alternative market structures. Market failures and government intervention. Public policy processes affecting business operations.

Restricted to ENTS majors. All non-major students will need to obtain department permission.

0101	Jahangir Boroumand W 5:30pm - 8:15pm	Seats (Total: 40) SQH 1105

0201	Jahangir Boroumand W 2:00pm - 4:45pm	Seats (Total: 40) SQH 1105

ENTS632 **Telecommunications Marketing Management**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in Telecommunications (Master's) program.

Topics covered include strategic marketing, sales and customer service challenges confronting organizations in the computer, communications and media industries. The course also addresses volatile technology, regulatory and competitive environments as a backdrop to strategic planning and management in the marketing domain.

Restricted to ENTS majors. All non-major students will need to obtain department permission. Click here for more course information.

0101	Janet Wagner Tu 5:30pm - 8:15pm	Seats (Total: 40) SQH 1105
0201	Janet Wagner Tu 2:00pm - 4:45pm	Seats (Total: 40) SQH 1105

ENTS635 **Decision Support Methods for Telecommunication Managers**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in Telecommunications (Master's) program.

The aim of this course is to introduce management science techniques for informed decision making. Topics covered can include data analysis and regression, optimization models and applications (workforce scheduling, manufacturing, network design, facility location), sensitivity analysis, decision trees, risk analysis and business simulation models. Emphasis will be on telecommunications managerial problems, model development and the use of software packages for decision support.

Restricted to ENTS majors. All non-major students will need to obtain department permission. Click here for more course information.

0101	Kazim Ruhi M 5:30pm - 8:15pm	Seats (Total: 40) SQH 1105
0201	Kazim Ruhi M 2:00pm - 4:45pm	Seats (Total: 40) SQH 1105

ENTS640 **Networks and Protocols I**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in Telecommunications (Master's) program.

An overview of design issues and the important industry standards for digital communications networks. This includes protocols, data communications technologies, error correction and detection, congestion control, traffic routing, Local Area Network (LAN) protocols, TCP/IP, and some security issues.

0101	Zoltan Safar Th 5:30pm - 8:15pm Tu 5:30pm - 8:15pm	Seats (Total: 20) SPH 1301 AVW 1458	 Lab
0102	Zoltan Safar Th 5:30pm - 8:15pm W 5:30pm - 8:15pm	Seats (Total: 21) SPH 1301 AVW 1458	 Lab
0103	Zoltan Safar Th 5:30pm - 8:15pm Tu 2:00pm - 4:45pm	Seats (Total: 20) SPH 1301 AVW 1458	 Lab

ENTS641 **Networks and Protocols II**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENTS640. Restriction: Must be in Telecommunications (Master's) program.

Techniques for the specification, design, analysis, verification and testing of communication protocols are discussed. The course includes detailed discussion on routing protocols in the Internet. This includes Routing Information Protocol (RIP), Enchanced Interior Gateway Routing Protocol (EIGRP). Open Shortest Path First (OSPF), and Border Gateway Protocol (BGP4).

0101	Mehdi Kalantari Khandani Th 5:30pm - 8:15pm	Seats (Total: 40) EGR 3106

ENTS649B **Special Topics in Networking; Cloud Computing**

Credits: 3 Grading Method: Regular, Audit

Selected topics of current importance in networking.

0101	Alkan Soysal M 2:00pm - 4:45pm	Seats (Total: 30) JMP 2202

ENTS653 **AWS/PCS System Implementation**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in Telecommunications (Master's) program.

Engineering issues associated with designing and deploying a AWS/PCS cellular wireless communications system in the current world environment will be examined. The course will focus on implementation issues such as the impact of real world concerns on the deployment strategy and the use of good engineering practice to overcome obstacles. Students will create and modify mock deployments using professional tools for cell planning and interference analysis. Students will also be exposed to drive testing tools and concepts for migration to future technologies.

0101	Michael Dellomo Tu 5:30pm - 8:15pm	Seats (Total: 40) EGR 0135

ENTS657 **Satellite Communication Systems**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: ENTS657 or ENTS689S. Formerly: ENTS689S.

An examination of satellite telecommunication systems with an emphasis on the mobile satellite systems (MSS). Topics will include a historical perspective, orbital mechanics and constellations, choice of orbital parameters, propagations considerations, link budgets, interference issues and other obstacles, and existing and proposed mobile satellite systems. It will also look at some of the business aspects such as the cost of deploying and maintaining these systems.

An examination of satellite telecommunication systems with an emphasis on the mobile satellite systems (MSS). Topics will include a historical perspective, orbital mechanics and constellations, choice of orbital parameters, propagations considerations, link budgets, interference issues and other obstacles, and existing and proposed mobile satellite systems. It will also look at some of the business aspects such as the cost of deploying and maintaining these systems.

0101	Michael Dellomo W 5:30pm - 8:15pm	Seats (Total: 30) EGR 1104

ENTS669B **Special Topics in Computing; Distributed Systems in a Virtual Environment**

Credits: 3 Grading Method: Regular, Audit

Selected topics of current importance in computing.

0101	Jeffrey McKinney	Seats (Total: 18)
	M 5:30pm - 8:15pm	AVW 1324

ENTS669E **Special Topics in Computing; Statistical Pattern Recognition**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Selected topics of current importance in computing.

Restriction: Permission of the instructor. The goal is to introduce mathematical pattern analysis and recognition. Emphasis is given to parametric and non-parametric statistical pattern recognition methods and clustering with applications to speech, image and video recognition.

0101	Behtash Babadi	Seats (Total: 10)
	TuTh 3:30pm - 4:45pm	EGR 1202

ENTS673 **Project Management for Telecommunications**

Credits: 3 Grading Method: Regular, Audit

Formerly: ENTS689P.

Introduces modiern project management. Begins with an overview and expands into Adaptive and Extreme project management. The focus then shifts to the individual skills required to be an effective project manager, such as time management, leadership and motivation. Once skills of the individual have been addressed, social networks and how they impact project management are examined.

Restricted to ENTS majors. All non-major students will need to obtain department permission. Click here for more course information.

0101	Barnet Corwin	Seats (Total: 30)
	Tu 5:30pm - 8:15pm	SQH 2120

ENTS689A **Special Topics in Telecommunications; Algorithms and Data Structures**

Credits: 3 Grading Method: Regular, Audit

Selected topics of current importance in telecommunications.

0101	Gang Qu	Seats (Total: 30)
	Th 2:00pm - 4:45pm	HJP 2242

ENTS689F **Special Topics in Telecommunications; Fundamentals of Wireless LANs**

Credits: 3 Grading Method: Regular, Audit

Selected topics of current importance in telecommunications.

0101	Rikin Thakker	Seats (Total: 30)
	F 5:30pm - 8:15pm	EGR 2154

ENTS689K **Special Topics in Telecommunications; Telecommunications Entrepreneurial Practicum**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Selected topics of current importance in telecommunications.

Department permission required.

0101	Michael Dellomo	Seats (Total: 3)
	Contact instructor or department for details.	

ENTS699B **Independent Study in Telecommunications; Embedded Signal Processing**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Individual instruction course. See ENTS program office for section number.

By Permission of ENTS Program Only.

0101	Shuvra Bhattacharyya	Seats (Total: 5)
	Contact instructor or department for details.	

ENTS699K **Independent Study in Telecommunications; Advanced Studies on Modern Wireless Networks and Technologies**

Credits: 3 Grading Method: Regular, Audit

Individual instruction course. See ENTS program office for section number.

0101	Kamran Etemad	Seats (Total: 24)
	M 2:00pm - 4:45pm	AVW 1458

ENTS749B **Advanced Topics in Networking; Software-Defined Networking**

Credits: 3 Grading Method: Regular, Audit

Selected advanced topics in networking.

Please click here for further course information.

0101	Majid Raissi-Dehkordi M 5:30pm - 8:15pm	Seats (Total: 24) AVW 1458

ENTS749D **Advanced Topics in Networking; Network Design and Configuration Lab**

Credits: 3 Grading Method: Regular, Audit

Selected advanced topics in networking.

0101	Zoltan Safar F 2:00pm - 4:45pm	Seats (Total: 18) AVW 1324

ENTS759D **Advanced Topics in Communications; Distributed Antenna Systems (DAS) and Small Cells**

Credits: 3 Grading Method: Regular, Audit

Selected advanced topics in communications.

Prerequisites: ENTS656 or ENTS653.

0101	Rikin Thakker F 2:00pm - 4:45pm	Seats (Total: 30) CHE 2118

EPIB Epidemiology and Biostatistics Fall 2018

EPIB300 **Biostatistics for Public Health Practice**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: FSAR

Prerequisite: Minimum grade of C- in CHEM131 and CHEM132. Restriction: Must be in Public Health Science program; and must have earned a minimum of 60 credits. Also offered as: HLTH300. Credit only granted for: EPIB300, EPIB315 or HLTH300.

An examination of biostatistical concepts and procedures as they relate to contemporary issues in public health. Focus on applications, hands-on-experience, and interpretations of statistical findings in public health research.

0101	Rodman Turpin TuTh 11:00am - 11:50am M 12:00pm - 12:50pm	Seats (Total: 20) ARM 0131 SPH 0305	Discussion
0102	Rodman Turpin TuTh 11:00am - 11:50am Th 12:30pm - 1:20pm	Seats (Total: 20) ARM 0131 SPH 0302	Discussion
0103	Rodman Turpin TuTh 11:00am - 11:50am Th 2:00pm - 2:50pm	Seats (Total: 20) ARM 0131 PLS 1158	Discussion
0104	Rodman Turpin TuTh 11:00am - 11:50am Th 3:00pm - 3:50pm	Seats (Total: 20) ARM 0131 PLS 1158	Discussion
0105	Rodman Turpin TuTh 11:00am - 11:50am M 9:00am - 9:50am	Seats (Total: 20) ARM 0131 SPH 0308	Discussion
0106	Rodman Turpin TuTh 11:00am - 11:50am M 10:00am - 10:50am	Seats (Total: 20) ARM 0131 SPH 0305	Discussion

EPIB301 **Epidemiology for Public Health Practice**

Credits: 3 Grading Method: Regular, Pass-Fail

Restriction: Must be in Public Health Science program; or must be in Community Health program. And must have earned a minimum of 45 credits. Also offered as: HLTH301. Credit only granted for: EPIB301 or HLTH301.

An examination of the discipline of epidemiology and its application to public health issues and practices, covering current epidemiological concepts and methods.

0101	Natalie Slopen TuTh 2:00pm - 2:50pm F 9:00am - 9:50am	Seats (Total: 20) ESJ 0224 SPH 0301	Discussion
0102	Natalie Slopen TuTh 2:00pm - 2:50pm F 10:00am - 10:50am	Seats (Total: 20) ESJ 0224 SPH 0307	Discussion

0103	Natalie Slopen TuTh 2:00pm - 2:50pm F 11:00am - 11:50am	Seats (Total: 20) ESJ 0224 SPH 0307	Discussion
0104	Natalie Slopen TuTh 2:00pm - 2:50pm F 12:00pm - 12:50pm	Seats (Total: 20) ESJ 0224 SPH 0307	Discussion
0105	Natalie Slopen TuTh 2:00pm - 2:50pm M 1:00pm - 1:50pm	Seats (Total: 20) ESJ 0224 SPH 0303	Discussion
0106	Natalie Slopen TuTh 2:00pm - 2:50pm M 2:00pm - 2:50pm	Seats (Total: 20) ESJ 0224 SPH 0303	Discussion
0107	Natalie Slopen TuTh 2:00pm - 2:50pm M 3:00pm - 3:50pm	Seats (Total: 20) ESJ 0224 SPH 0303	Discussion
0108	Natalie Slopen TuTh 2:00pm - 2:50pm M 4:00pm - 4:50pm	Seats (Total: 20) ESJ 0224 SPH 0308	Discussion
SG91	Bonnie Richter Tu 12:30pm - 3:00pm *Restricted to Public Health Science students (code:12140).*	Seats (Total: 40) BLD2 3062	

EPIB315 **Biostatistics for Public Health Practice**

Credits: 3 | Grading Method: Regular, Pass-Fail | General Education: FSAR

Prerequisite: Minimum grade of C- in EPIB301. Restriction: Must be in one of the following programs (Public Health Science; Community Health). Also offered as: HLTH300. Credit only granted for: EPIB300, EPIB315 or HLTH300. Formerly: EPIB300.

An examination of biostatistical concepts and procedures as they relate to contemporary issues in public health. Focus on applications, hands-on-experience, and interpretations of statistical findings in public health research.

0101	Rodman Turpin TuTh 11:00am - 11:50am M 12:00pm - 12:50pm	Seats (Total: 20) ARM 0131 SPH 0305	Discussion
0102	Rodman Turpin TuTh 11:00am - 11:50am Th 12:30pm - 1:20pm	Seats (Total: 20) ARM 0131 SPH 0302	Discussion
0103	Rodman Turpin TuTh 11:00am - 11:50am Th 2:00pm - 2:50pm	Seats (Total: 20) ARM 0131 PLS 1158	Discussion
0104	Rodman Turpin TuTh 11:00am - 11:50am Th 3:00pm - 3:50pm	Seats (Total: 20) ARM 0131 PLS 1158	Discussion
0105	Rodman Turpin TuTh 11:00am - 11:50am M 9:00am - 9:50am	Seats (Total: 20) ARM 0131 SPH 0308	Discussion
0106	Rodman Turpin TuTh 11:00am - 11:50am M 10:00am - 10:50am	Seats (Total: 20) ARM 0131 SPH 0305	Discussion
0202	Rodman Turpin TuTh 11:00am - 11:50am W 10:00am - 10:50am	Seats (Total: 30) ARM 0131 CHM 0127	Discussion

EPIB330 **The Coming Plague: Public Health Perspectives**

Credits: 3 Grading Method: Regular

Prerequisite: BSCI202.

Disease control and prevention is fundamental to the health of local, national, and global populations. Infectious agents are constantly adapting and breaching our defenses. Factors related to society, the environment, and our increasing global interconnectedness increase the likelihood of disease emergence and spread. Vaccines and antibiotics, demographic changes and urbanization, climate change and natural disasters, international travel and commerce, poverty and war create conditions for infectious diseases to spread. So how do we design and execute solutions to public health threats? How do research, policies, interventions, and budgets affect public health systems?

0101	Steven Ault	Seats (Total: 35)
	TuTh 11:00am - 12:15pm	ANS 0412
	Restricted to PHSC students at the College Park campus.	

EPIB399 **Epidemiology and Biostatistics Independent Study**

Credits: 1-3 Grading Method: Regular

The EPIB undergraduate independent study is an opportunity for undergraduates from other departments in the SPH or the university to work with an Epidemiology and Biostatistics faculty member on research or special projects that are based out of EPIB.

Contact department for information to register for this course.

EPIB612 **Epidemiologic Study Design**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EPIB611.

Application of epidemiologic study designs, analytic methods used for analysis of cohort, case-control, cross-sectional, and clinical trials research.

Prequisties: EPIB650, EOIB610, and EPIB611.

0101	Hongjie Liu, Rodman Turpin	Seats (Total: 20)
	M 4:00pm - 6:45pm	SPH 0303

EPIB622 **Social Determinants of Health**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have completed or be concurrently enrolled in SPHL602; or EPIB610.

Overview of the major social variables that affect public health, including socioeconomic status, poverty, income distribution, race, social networks/support, community cohesion, psychological stress, gender, and work and neighborhood environment.

0101	Sunmin Lee	Seats (Total: 20)
	Th 4:00pm - 6:45pm	SPH 0305

EPIB630 **Epidemiologic Methods in Sexual and Reproductive Health Research**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have completed or be concurrently enrolled in SPHL602; or EPIB610.

Examination of epidemiologic methods (quantitative and qualitative) for collecting and analyzing data on sexual and reproductive health. The emphasis will be to introduce students to the appropriate methods used for challenging and sensitive research topics such as sexual behavior, HIV/STI, drug use, sexual abuse.

0101	Typhanye Dyer	Seats (Total: 20)
	Tu 11:00am - 1:45pm	SPH 0302

EPIB651 **Biostatistics II**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: 1 course with a minimum grade of B- from (SPHL602, EPIB650); or a minimum score of 70% on the SPHL602 or EPIB650 waiver exam. Recommended: EPIB697 or previous experience working with SAS is highly recommended.

An introduction to important statistical methods used in public health research, including nonparametric hypothesis testing, ANOVA, simple and multiple linear regression, logistic regression, and categorical data analysis.

0101	Xin He	Seats (Total: 20)
	Th 1:00pm - 3:45pm	SPH 0301

EPIB652 **Categorical Data Analysis**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EPIB651. Recommended: EPIB697 or previous experience working with SAS is highly recommended.

Methods for analysis of categorical data as applied to public health research, including contingency tables, logistic regression, multicategory logic models, loglinear models, and models for matched-pairs.

0101	Jing Zhang	Seats (Total: 20)
	W 4:00pm - 6:45pm	SPH 0301

EPIB655 **Longitudinal Data Analysis**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EPIB651.

Statistical models for drawing scientific inferences from longitudinal data, longitudinal study design, repeated measures and random effects to account for experimental designs that involve correlated responses, handling of missing data.

0101	Xin He	Seats (Total: 15)
	Tu 1:00pm - 3:45pm	SPH 0301

EPIB697 **Public Health Data Management**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Permission of instructor.

This course is designed to provide students with the expertise needed to effectively manage research data using SAS as the statistical programming language.

0101	Raul Cruz-Cano	Seats (Total: 20)
	Tu 4:00pm - 6:45pm	SPH 0302

EPIB778 **Internship in Public Health**

(Perm req)

Credits: 1-4 Grading Method: Regular

Internship and seminar providing an opportunity to apply previously acquired knowledge and skills in a health or allied health organization. Setting of the internship will depend upon the student's background and career goals.

Contact department for information to register for this course.

EPIB785 **Internship in Public Health**

Credits: 3 Grading Method: Regular

Prerequisite: Permission of SPHL-Epidemiology & Biostatistics department.

Internship and seminar providing an opportunity to apply previously acquired knowledge and skills in a health or allied health organization. Setting of the internship will depend upon the student's background and career goals.

0209	Brit Saksvig	Seats (Total: 15)
	Contact instructor or department for details.	
0213	Natalie Slopen	Seats (Total: 15)
	Contact instructor or department for details.	

EPIB786 **Capstone Project in Public Health**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Prerequisite: Permission of SPHL-Epidemiology & Biostatistics department.

Capstone experience providing opportunity to apply knowledge and skills to a specific public health problem or issue. Completion of project relevant to public health under the direction of an advisor.

Contact department for information to register for this course.

EPIB788 **Critical Readings in Epidemiology and Biostatistics**

(Perm req)

Credits: 1-3

Grading Method: Regular, Audit

Open to master and doctoral students to discuss critical readings in Epidemiology and Biostatistics.

Contact department for information to register for this course.

EPIB798 **Independent Study**

(Perm req)

Credits: 1-6

Grading Method: Regular, Audit

Master or doctoral students who desire to pursue special research problems under the direction of a faculty memeber of the department may register for 1-6 hours of credit under this number.

Contact department for information to register for this course.

EPIB799 **Master's Thesis Research**

(Perm req)

Credits: 1-6

Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

EPIB898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8

Grading Method: Regular

Contact department for information to register for this course.

EPIB899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6

Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

FGSM Federal and Global Semester Fall 2018

FGSM310 **Political Engagement and Advocacy**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in the Federal Fellows Program AND Permission of Instructor.

An examination of questions and issues in the practice of political engagement and advocacy. Guest lecturers drawn from political, civic engagement, and advocacy arenas will visit class and participate in discussions.

Also offered as HONR378C. Credit only granted for FGSM310 or HONR378C.

0101	Dale Crowell Tu 6:30pm - 9:30pm	Seats (Total: 25) SYM 0215

FGSM320 **Public Health Policy**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in the Federal Fellows Program; and permission of instructor. Credit only granted for: UNIV348P or FGSM320. Formerly: UNIV348P.

An exploration of the major questions and issues facing the U.S. health care system as well as the formulation and implementation of health policy.

Also offered as HONR378E. Credit granted for FGSM320 or HONR378E.

0101	Elaine Anderson, Samuel Kessel Tu 3:30pm - 6:30pm	Seats (Total: 25) SPH 0308

FGSM330 **Homeland and National Security Policy**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in the Federal Fellows Program; and permission of instructor. Credit only granted for: UNIV348T or FGSM330. Formerly: UNIV348T.

An examination of the concept of U.S. homeland and national security, threats, and major vulnerabilities in the context of recent history.

Also offered as HONR378G. Credit granted for FGSM330 or HONR378G.

0101	Magdalena Bajll M 6:30pm - 9:30pm	Seats (Total: 25) PLS 1117

FGSM340 **Energy and Environmental Policy**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in the Federal Fellows Program; and permission of instructor. Credit only granted for: UNIV348E or FGSM340. Formerly: UNIV348E.

An examination of issues of energy and environmental sustainability through an investigation of policy-making in energy, climate change, and sustainable development.

Also offered as HONR378J. Credit granted for FGSM340 or HONR378J.

0101	Ed Fendley, Thomas Carter	Seats (Total: 25)
	Tu 3:30pm - 6:30pm	HBK 0125

FGSM350 **Critical Regions and International Relations**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in the Global Fellows Program; and permission of instructor.

An examination of international relations and foreign policy challenges in critical regions.

Also offered as FGSM350. Credit granted for FGSM350 or HONR378K.

0101	Danusia Hubah	Seats (Total: 25)
	Th 7:00pm - 10:00pm	PLS 1113

FGSM360 **U.S. Diplomacy and Policymaking**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in the Global Fellows Program; and permission of instructor.

An examination of questions and issues in the practice of contemporary diplomacy and policy-making. Guest lecturers drawn from Washington policy-making and foreign service communities will visit class and participate in discussion.

Also offered as HONR378A. Credit granted for FGSM360 or HONR378A.

0101	Ylber Bajraktari, William Usher	Seats (Total: 25)
	Th 7:30pm - 10:00pm	KNI 1105

FGSM370 **Science Diplomacy: Foreign Policy & Science, Technology, and Innovation**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in the Global Fellows Program; and permission of instructor. Credit only granted for: UNIV389F or FGSM370. Formerly: UNIV389F.

An exploration of the critical roles scientific knowledge and technological innovation play in the formation and implementation of foreign policy issues, including energy and climate change, public health, space and innovation, and economic development.

Also offered as HONR378D. Credit granted for FGSM370 or HONR378D.

0101	Griffin Thompson, Jonathan Margolis W 5:00pm - 8:00pm	Seats (Total: 25) SQH 1101

FGSM380 **Responses to Global Challenges**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in the Global Fellows Program; and permission of instructor. Credit only granted for: UNIV389B or FGSM380. Formerly: UNIV389B.

An examination of global issues and responses primarily from the perspective of the practitioner. The focus will be on social, humanitarian, and human rights issues in different global contexts.

Also offered as HONR378B. Credit granted for FGSM380 or HONR378B.

0101	Rhoda Margesson W 5:30pm - 8:30pm	Seats (Total: 25) AJC 2134

FILM Film Studies Fall 2018

FILM245 **Film Form and Culture**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

CORE: HA

General Education: DSHU

Restriction: Must not have completed ENGL245. Also offered as: ENGL245. Credit only granted for: CMLT214, CMLT245, ENGL245, or FILM245. Formerly: CMLT214.

Introduction to film as art form and how films create meaning. Basic film terminology; fundamental principles of film form, film narrative, and film history. Examination of film technique and style over past one hundred years. Social and economic functions of film within broader institutional, economic, and cultural contexts.

0101	Mauro Resmini	Seats (Total: 25)	
	MW 11:00am - 11:50am	TWS 0320	
	W 3:00pm - 5:30pm	TWS 0320	Lab
	F 10:00am - 10:50am	TWS 1107	Discussion
0102	Mauro Resmini	Seats (Total: 25)	
	MW 11:00am - 11:50am	TWS 0320	
	W 3:00pm - 5:30pm	TWS 0320	Lab
	F 11:00am - 11:50am	TWS 1107	Discussion
0103	Mauro Resmini	Seats (Total: 25)	
	MW 11:00am - 11:50am	TWS 0320	
	W 6:00pm - 8:30pm	TWS 0320	Lab
	F 11:00am - 11:50am	TWS 1320	Discussion
0104	Mauro Resmini	Seats (Total: 25)	
	MW 11:00am - 11:50am	TWS 0320	
	W 6:00pm - 8:30pm	TWS 0320	Lab
	F 12:00pm - 12:50pm	TWS 0201	Discussion

FILM298A **Special Topics in International Film Studies; Masterpieces in French and Francophone Cinemas**

Credits: 3 Grading Method: Regular General Education: DSHU

Special topics in International Film.

Also offered as FILM298A. Credit only granted for FREN243 or FILM298A.

0101	Caroline Eades	Seats (Total: 27)	
	TuTh 3:30pm - 4:45pm	JMZ 2117	

FILM298B **Special Topics in International Film Studies; Iranian Cinema I**

Credits: 3 Grading Method: Regular General Education: DSHU

Special topics in International Film.

Also offered as PERS283. Credit granted for PERS283 or FILM283.

0101	Ida Meftahi	Seats (Total: 30)	
	MW 3:30pm - 4:45pm	KEY 0121	

FILM298C **Special Topics in International Film Studies; The Jewish Image on Screen (Film/TV/Web)**

Credits: 3 Grading Method: Regular

Special topics in International Film.

Also offered as JWST219A and CMLT298A. Credit only granted for JWST219A, CMLT298A, or FILM298C. The different ways that the Jewish image has been represented in cinema over time, including film, television, and the Internet will be explored. Representations will include secular and religious communities; Orthodox and Haredi Jews; LGBTQ and Jews of Color; intergenerational conflict; various countries of origin (especially Israel and the US); and more.

0101	Shalom Rosenberg TuTh 11:00am - 12:15pm	Seats (Total: 25) HBK 0109

FILM301 Cinema History I: The Silent Era

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENGL245, FILM245, SLLC283, or FILM283; or permission of ARHU-College of Arts & Humanities.

Examines the development of silent cinema from the 1890s to the early 1930s drawing on at least five distinct national traditions (French, German, Russian, British, and American). Introduces students to key cinematic conventions as they emerged around the world.

0101	Elizabeth Papazian MW 10:00am - 11:50am	Seats (Total: 30) HBK 0302J

FILM329E Special Topics in National/International Cinemas; Soviet Cinema and Culture after Stalin

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Examine one or more national cinematic traditions (including Hollywood cinema), or may look across traditions comparatively, for example at international and/or transnational phenomena. Content varies.

Also offered as FILM329E. Credit only granted for RUSS398F or FILM329E.

0101	Elizabeth Papazian MW 12:00pm - 1:50pm	Seats (Total: 30) HBK 0302H

FILM329G Special Topics in National/International Cinemas; One Hundred Years of Hollywood and Politics

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Examine one or more national cinematic traditions (including Hollywood cinema), or may look across traditions comparatively, for example at international and/or transnational phenomena. Content varies.

Also offered as HIST319W. Credit only granted for HIST319W or FILM329G.

0101	Saverio Giovacchini MW 11:00am - 11:50am Class time/details on ELMs	Seats (Total: 40) KEY 1117 ONLINE

FILM329J **Special Topics in National/International Cinemas; The Self and the "Other" in Israeli Culture: Literature, Film, and Television**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Examine one or more national cinematic traditions (including Hollywood cinema), or may look across traditions comparatively, for example at international and/or transnational phenomena. Content varies.

Also offered as ISRL349Q, CMLT398B, HEBR498Q and JWST319Q. Credit granted only for FILM329J, ISRL349Q, CMLT398B, HEBR498Q or JWST319Q. Modern Israel includes people of many different faiths, ethnicities, languages, and cultures, but Jews of European origin have generally dominated its political and cultural climate. Through literature and film, we will explore how the sense of the "self" is constructed and how the "other" is imagined in Israeli culture. "Others" include Palestinians, Sephardim, Mizrahim, non-Zionists, women, and Eastern Europeans who do not relinquish their ties to the past, as well as other individuals who resist the collective ideologies of a nation constructing itself.

0101	Chen Edrei TuTh 11:00am - 12:15pm	Seats (Total: 40) HBK 0103

FILM359G **Special Topics in Genres/Auteurs/Cinema Movements; World Science Fiction Film**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Examine narrative cinema from the perspective of content (themes, issues, structures) and style through the lens of genre, auteurship (a concept of authorship in film studies), and/or historical aesthetic movements that have been influential in the development of cinema as an art and film studies as a field. Content varies.

The goal of this introductory course is, through intensive viewings, readings, and discussions of representative examples of world science fiction film to examine and understand the critical relevance of science and technology to human condition.

0101	Jason Kuo TuTh 11:00am - 12:15pm	Seats (Total: 25) HBK 0302J

FILM359P **Special Topics in Genres/Auteurs/Cinema Movements; The Films of Martin Scorsese**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Examine narrative cinema from the perspective of content (themes, issues, structures) and style through the lens of genre, auteurship (a concept of authorship in film studies), and/or historical aesthetic movements that have been influential in the development of cinema as an art and film studies as a field. Content varies.

Also offered as ENGL329P. Credit granted for ENGL329P or FILM359P. Prerequisite: ENGL245, FILM245, FILM283, or SLLC283; or permission of department.

0101	Marianne Conroy	Seats (Total: 30)
	TuTh 11:00am - 12:15pm	TWS 1106

FILM369D **Special Topics in Film Theories; Cinema in the Expanded Field**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Examines specific methodologies (structuralism, feminism, postcolonialism, etc.) for the critical analysis of film. The course will also consider the historical development of theoretical concepts. Content varies.

0101	Luka Arsenjuk	Seats (Total: 20)
	TuTh 12:30pm - 1:45pm	KNI 1103

FILM369N **Special Topics in Film Theories; Sound, Cinema, Music**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Examines specific methodologies (structuralism, feminism, postcolonialism, etc.) for the critical analysis of film. The course will also consider the historical development of theoretical concepts. Content varies.

0101	Eric Zakim	Seats (Total: 20)
	TuTh 9:30am - 10:45am	JMZ 0125

FILM388 **Experiential Learning: Film Studies**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail

Connects students' theoretical understanding of film studies, as obtained through the classroom, to professional experience.

Contact department for information to register for this course.

FILM412 **Animation and Cinema**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENGL245, FILM245, SLLC283, or FILM283; or permission of ARHU-College of Arts & Humanities. Credit only granted for: FILM412 or ENGL468C.

An examination of animation in art, cinema, and other media.

Also offered as ENGL468C.

0101	Oliver Gaycken MW 2:00pm - 3:15pm	Seats (Total: 25) TWS 0236

FILM421 **Francophone African Film**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHU, DVUP

Also offered as: FREN421. Credit only granted for: FREN421 or FILM421.

Imaginary and Memory in the Reality of Francophone African Film from 1960-present. Taught in English.

0101	Valerie Orlando MW 3:30pm - 4:45pm	Seats (Total: 32) JMZ 0205

FILM429C **Special Topics in National/International Cinemas; Contemporary Chinese and Chinese American Cinema on Women**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Courses in National/International Cinemas may examine one or more national cinematic traditions (including Hollywood cinema), or may look across traditions comparatively, for example at international and/or transnational phenomena. Content varies.

Transnational cinema is one of the most crucial aspects of contemporary world culture because transnational cinema engages with issues related to immigrant identities, transnational encounters, foreignness and citizenship, the politics of visibility, terrorism, legality, race and racism.

0101	Jason Kuo TuTh 12:30pm - 1:45pm	Seats (Total: 10) HBK 0302J

FILM429Q **Special Topics in National/International Cinemas; Ideology of Stereotyping: American and Middle Eastern Film and Television**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Courses in National/International Cinemas may examine one or more national cinematic traditions (including Hollywood cinema), or may look across traditions comparatively, for example at international and/or transnational phenomena. Content varies.

Also offered as ARAB499Q. Credit only granted for ARAB410, ARAB499Q, or FILM429Q. Exploration of cultural stereotyping, using examples from American and Middle Eastern cinema and television. Students will examine ideological constructs of Otherness and its history, including Orientalism; propaganda techniques; and audiovisual aspects of stereotyping. While the focus is on American and Middle Eastern cultural production, the course will engage broader issues of stereotyping in contemporary society and media. Readings include theories of propaganda and cultural ideology.

0101	Valerie Anishchenkova	Seats (Total: 20)
	Tu 12:30pm - 3:15pm	HJP 2118

FILM441 **Italian Cinema I: Neorealism**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Also offered as: ITAL436. Credit only granted for: FILM441 or ITAL436.

Explores representations of Italy in cinema with special focus on identity formation and the movement of Italian neorealism and post neorealism. Taught in English.

0101	Mauro Resmini	Seats (Total: 25)
	MW 2:00pm - 3:15pm	TWS 1320

FILM469D **Special Topics in Film Theories II; Thinking, Feeling, and Sensing: Film Theory and the Experience of Cinema**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Special topics in film theories.

0101	Hester Baer	Seats (Total: 15)
	Tu 2:00pm - 5:00pm	HBK 0302J
	Th 2:00pm - 3:15pm	HBK 0302J

FILM499 **Directed Study in Film Studies**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Readings and Research in Film Studies under faculty supervison.

Contact department for information to register for this course.

FIRE First-Year Innovation & Research Experience Fall 2018

FIRE120 **FIRE SEMESTER 1**

Credits: 3 Grading Method: Regular General Education: DSSP

Additional information: This is the first course in the FIRE (First-Year Innovation & Research Experience) program sequence.

Engages the research process through the design, research, collaborative authorship and iterative review-based refinement of research proposals. Students find and analyze primary literature, think creatively, author and communicate research proposals in a scholarly fashion and work collaboratively to solve scientific and societal problems using technology, delegation and productive team communication.

0101	Liang-Chun Wang M 12:00pm - 12:50pm Contact instructor or department for details. *This section restricted to BioFIRE students.*	Seats (Total: 35) ATL 2339
0201	Cristina Risco F 11:00am - 11:50am Contact instructor or department for details.	Seats (Total: 40) ATL 2339
0301	Emina Herovic M 2:00pm - 2:50pm Contact instructor or department for details.	Seats (Total: 40) ATL 2339
0401	Yun Choi M 3:00pm - 3:50pm Contact instructor or department for details.	Seats (Total: 40) ATL 2339
0501	Nevine El-leithy M 4:00pm - 4:50pm Contact instructor or department for details.	Seats (Total: 40) ATL 2339
0601	Catherine Spirito F 9:00am - 9:50am Contact instructor or department for details.	Seats (Total: 40) ATL 2339

0701	Raymond Tu F 10:00am - 10:50am Contact instructor or department for details.	Seats (Total: 40) ATL 2339	
0801	Ashley Nazario Toole M 1:00pm - 1:50pm Contact instructor or department for details. *This section restricted to BioFIRE students.*	Seats (Total: 35) ATL 2339	
0901	Sarah Racz F 12:00pm - 12:50pm Contact instructor or department for details.	Seats (Total: 40) ATL 2339	
1101	Muge Karagoz F 1:00pm - 1:50pm Contact instructor or department for details.	Seats (Total: 40) ATL 2339	
1201	Derrick Yeo F 2:00pm - 2:50pm Contact instructor or department for details.	Seats (Total: 40) ATL 2339	
1301	Carolina Vieira F 3:00pm - 3:50pm Contact instructor or department for details.	Seats (Total: 40) ATL 2339	
1401	Kyungjin Yoo F 4:00pm - 4:50pm Contact instructor or department for details.	Seats (Total: 40) ATL 2339	
FCH1	Mohammad Fazelpour Th 6:00pm - 6:50pm Class time/details on ELMs *Restricted to students in Freshmen Connection.*	Seats (Total: 40) ATL 2339 ONLINE	 Discussion

FIRE120H **FIRE SEMESTER 1**

Credits: 3 Grading Method: Regular General Education: DSSP

Additional information: This is the first course in the FIRE (First-Year Innovation & Research Experience) program sequence.

Engages the research process through the design, research, collaborative authorship and iterative review-based refinement of research proposals. Students find and analyze primary literature, think creatively, author and communicate research proposals in a scholarly fashion and work collaboratively to solve scientific and societal problems using technology, delegation and productive team communication.

0101	Ian Page M 11:00am - 11:50am Contact instructor or department for details.	Seats (Total: 40) ATL 2339
0201	Patrick Killion W 9:00am - 9:50am Contact instructor or department for details.	Seats (Total: 40) ATL 2339

FIRE250 **FIRE SEMESTER 3: Antibiotic Resistance**

Credits: 3 Grading Method: Regular General Education: DSSP

Prerequisite: FIRE150.

FIRE SEMESTER 3 course for students in the FIRE program joining the Antibiotic Research research stream.

0101	Liang-Chun Wang W 1:00pm - 1:50pm Contact instructor or department for details.	Seats (Total: 36) ATL 2339

FIRE251 **FIRE SEMESTER 3: Sustainability Analytics**

Credits: 3 Grading Method: Regular General Education: DSSP

Prerequisite: FIRE151.

FIRE SEMESTER 3 course for students in the FIRE program joining the Sustainability Analytics research stream.

0101	Ian Page Tu 11:00am - 11:50am Contact instructor or department for details.	Seats (Total: 20) ATL 2339

FIRE253 **FIRE SEMESTER 3: Found In Translation**

Credits: 3 Grading Method: Regular General Education: DSSP

Prerequisite: FIRE153.

FIRE SEMESTER 3 course for students in the FIRE program joining the Found In Translation research stream.

0101	Carolina Vieira W 12:00pm - 12:50pm Contact instructor or department for details.	Seats (Total: 36) ATL 2339

FIRE254 **FIRE SEMESTER 3: Risk Communication & Resilience**

Credits: 3 Grading Method: Regular General Education: DSSP

Prerequisite: FIRE154.

FIRE SEMESTER 3 course for students in the FIRE program joining the Risk Communication and Resilience research stream.

0101	Emina Herovic Tu 12:30pm - 1:20pm Contact instructor or department for details.	Seats (Total: 36) ATL 2339

FIRE257 **FIRE SEMESTER 3: Addiction Science**

Credits: 3 Grading Method: Regular General Education: DSSP

Prerequisite: FIRE157.

FIRE SEMESTER 3 course for students in the FIRE program joining the Addiction Science research stream.

0101	Cristina Risco W 3:00pm - 3:50pm Contact instructor or department for details.	Seats (Total: 36) ATL 2339

FIRE260 **FIRE SEMESTER 3: Transgenerational Brain Initiative**

Credits: 3 Grading Method: Regular General Education: DSSP

Prerequisite: FIRE160.

FIRE SEMESTER 3 course for students in the FIRE program joining the Transgenerational Brain Initiative research stream.

0101	Yun Choi W 4:00pm - 4:50pm Contact instructor or department for details.	Seats (Total: 36) ATL 2339

FIRE263 **FIRE SEMESTER 3: Animal and Human Relationships**

Credits: 3 Grading Method: Regular General Education: DSSP

Prerequisite: FIRE163.

FIRE SEMESTER 3 course for students in the FIRE program joining the Animal and Human Relationships research stream.

0101	Sarah Racz Th 11:00am - 11:50am Contact instructor or department for details. *For students registering to be a part of the Human Relationships research team.*	Seats (Total: 20) ATL 2339
0201	Sarah Racz Th 11:00am - 11:50am Contact instructor or department for details. *For students registering to be a part of the Animal Relationships research team.*	Seats (Total: 15) ATL 2339

FIRE264 **FIRE SEMESTER 3: Autonomous Unmanned Systems**

Credits: 3 Grading Method: Regular General Education: DSSP

Prerequisite: FIRE164.

FIRE SEMESTER 3 course for students in the FIRE program joining the Autonomous Unmanned Systems research stream.

0101	Derrick Yeo Tu 3:30pm - 4:20pm Contact instructor or department for details.	Seats (Total: 40) ATL 2339

FIRE265 **FIRE SEMESTER 3: Designing Innovations**

Credits: 3 Grading Method: Regular General Education: DSSP

Prerequisite: FIRE165.

FIRE SEMESTER 3 course for students in the FIRE program joining the Designing Innovations research stream.

0101	Mohammad Fazelpour Th 12:30pm - 1:20pm Contact instructor or department for details.	Seats (Total: 36) ATL 2339

FIRE266 **FIRE SEMESTER 3: Evolution of Sex Differences**

Credits: 3 Grading Method: Regular General Education: DSSP

Prerequisite: FIRE166.

FIRE SEMESTER 3 course for students in the FIRE program joining the Evolution of Exaggerated Traits research stream.

0101	Ashley Nazario Toole Th 2:00pm - 2:50pm Contact instructor or department for details.	Seats (Total: 36) ATL 2339

FIRE270 **FIRE SEMESTER 3: Phillips Virtual Culture**

Credits: 3 Grading Method: Regular General Education: DSSP

Prerequisite: FIRE170.

FIRE SEMESTER 3 course for students in the FIRE program joining the Phillips Virtual Culture research stream.

0101	Kyungjin Yoo Th 3:30pm - 4:20pm Contact instructor or department for details.	Seats (Total: 40) ATL 2339

FIRE271 **FIRE SEMESTER 3: Capital One Machine Learning**

Credits: 3 Grading Method: Regular General Education: DSSP

Prerequisite: FIRE171.

FIRE SEMESTER 3 course for students in the FIRE program joining the Capital One Machine Learning research stream.

0101	Raymond Tu W 2:00pm - 2:50pm Contact instructor or department for details.	Seats (Total: 40) ATL 2339

FIRE272 **FIRE SEMESTER 3: Engineering Biosensors**

Credits: 3 Grading Method: Regular General Education: DSSP

Prerequisite: FIRE172.

FIRE SEMESTER 3 course for students in the FIRE program joining the Engineering Biosensors research stream.

0101	Catherine Spirito W 10:00am - 10:50am Contact instructor or department for details.	Seats (Total: 36) ATL 2339

FIRE273 **FIRE SEMESTER 3: Deep Brain Neurotech**

Credits: 3 Grading Method: Regular General Education: DSSP

Prerequisite: FIRE173.

FIRE SEMESTER 3 course for students in the FIRE program joining the Deep Brain Neurotech research stream.

0101	Nevine El-leithy W 11:00am - 11:50am Contact instructor or department for details.	Seats (Total: 40) ATL 2339

FIRE274 **FIRE SEMESTER 3: African American Digital Humanities - Digitial Archives**

Credits: 3 Grading Method: Regular General Education: DSSP

Prerequisite: FIRE174.

FIRE SEMESTER 3 course for students in the FIRE program joining the African American Digital Humanities - Digitial Archives research stream.

0101	Jessica Lu Tu 9:30am - 10:20am Contact instructor or department for details.	Seats (Total: 20) ATL 2339

FMSC Family Science Fall 2018

FMSC110 **Families and Global Health**

Credits: 3 Grading Method: Regular General Education: DSHS, DVCC

Students will explore, define, and study global health, social determinants of health, health inequalities, gender inequality, family violence, and maternal and child health using a global perspective.

0101	Laura Drew TuTh 9:30am - 10:45am	Seats (Total: 30) ARC 1105

FMSC110S **Families and Global Health**

Credits: 3 | Grading Method: Regular | General Education: DSHS, DVCC

Students will explore, define, and study global health, social determinants of health, health inequalities, gender inequality, family violence, and maternal and child health using a global perspective.

0101	Elisabeth Maring	Seats (Total: 96)
	TuTh 11:00am - 12:15pm	CCC 1100
	Restricted to CPSP Global Public Health students.	

FMSC111 **Credit Cards and College Students**

Credits: 1 | Grading Method: Regular, Pass-Fail, Audit

Recommended: Moderate level of computer literacy, especially Internet and ELMS. Reliable computer and Internet access. Credit only granted for: FMSC111, FMSC341 or FMSC498D. Formerly: FMSC498D.

Provides college students with factual information about basic money management skills, emphasizing the responsible use of credit, specifically credit cards. Topics will include financial goals, spending plan, wise use of credit, debt management, consumer credit protection, and ID Theft. Online lessons will include video clips and interactive class activities. Students will learn the basics to build a strong financial future.

FCW1	Jinhee Kim	Seats (Total: 45)
	Meets October 15, 2018 - December 10, 2018	
	Class time/details on ELMs	ONLINE
	Restricted to students in Freshmen Connection.	

FMSC170 **Future of Families: Issues and Controversies**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, SCIS

Credit only granted for: FMSC170 or FMSC298F. Formerly: FMSC298F.

Examination of current trends and controversial issues in family life, including issues of marriage, reproductive technologies, adoption, child custody, remarriage, and marital violence.

FC01	Kimberly Van Putten-Gardner	Seats (Total: 50)
	TuTh 3:00pm - 4:15pm	EDU 3315
	Restricted to students in Freshmen Connection.	

FMSC190 **Man Up! Where Are The Fathers?**

Credits: 3 | Grading Method: Regular | General Education: DSHS, SCIS

An examination of changing fatherhood roles, health, and inequality in diverse families. Focus will be on masculinities and disparities among men by race and class; provider role expectations; and trauma and violence faced by men in contemporary society.

0101	Kevin Roy	Seats (Total: 80)
	MWF 11:00am - 11:50am	CCC 1205

FMSC260 **Couple Relationships**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS

Credit only granted for: FMSC260 or FMST260. Formerly: FMST260.

Couple relationships and their alternatives in contemporary dating, courtship and marriage.

Restricted to Majors or non-majors with less than or equal to 60 credits.

0101	Elise Resnick	Seats (Total: 55)
	TuTh 12:30pm - 1:45pm	SPH 1302

FMSC290 **Family Economics**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: FMSC290 or FMST290. Formerly: FMST290.

Application of economic methodology to study families under various economic situations. Examination of how decisions about marriage, divorce, fertility, consumption and time use are influenced by labor/housing markets, tax structure, social welfare benefits and other economic considerations.

Restricted to Majors or non-majors with less than or equal to 60 credits.

0101	Manouchehr Mokhtari	Seats (Total: 65)
	TuTh 5:00pm - 6:15pm	SPH 1312

FMSC302 **Research Methods in Family Science**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, DSSP

Prerequisite: Must have completed an introductory statistics course. Restriction: Must be in a major within SPHL-Family Science department. Credit only granted for: FMSC302 or FMST302. Formerly: FMST302.

Introduction to the methods of the social and behavioral sciences employed in family science. The role of theory, the development of hypotheses, measurement, design, and data analysis.

0101	Ryan Blick TuTh 9:30am - 10:45am	Seats (Total: 75) SPH 1303

FMSC310 **Maternal, Child and Family Health**

Credits: 3 Grading Method: Regular, Pass-Fail

Credit only granted for: FMSC310, FMSC410 or FMSC498A. Formerly: FMSC498A and FMSC410. Additional information: A comprehensive understanding of maternal, child, and family health, with additional emphasis on environmental health, needs assessment and evaluation, enabling students to more effectively address issues in the workplace.

Overview of the major issues in Maternal, Child, and Family Health in the U.S. and the world. The course will cover the social, political, environmental, and economic factors that shape the health of women, children, and families throughout the life course. It will employ the core disciplines of public health -- 1) epidemiology/biostatistics, 2) environmental health, 3) health policy and administration, and 4) social and behavioral health -- to examine these factors. The course introduces specific issues and interventions and places these issues and interventions within their broad sociohistorical context.

0101	Marie Thoma MWF 11:00am - 11:50am	Seats (Total: 45) SPH 1302
0201	Edmond Shenassa TuTh 11:00am - 12:15pm	Seats (Total: 45) SPH 1302
0301	Marie Thoma MWF 10:00am - 10:50am	Seats (Total: 45) SPH 1302

FMSC330 **Family Theories and Patterns**

Credits: 3 Grading Method: Regular, Audit General Education: DSHS, DVUP

Restriction: Junior standing or higher. Credit only granted for: FMSC330 or FMST330. Formerly: FMST330.

Theory and research on the family, including a cross-cultural analysis of family patterns.

0101	Robyn Zeiger TuTh 9:30am - 10:45am	Seats (Total: 60) SPH 1301
0201	Samuel Allen TuTh 12:30pm - 1:45pm	Seats (Total: 60) MCB 1207
0301	Elise Resnick TuTh 11:00am - 12:15pm	Seats (Total: 60) SPH 1301

FMSC332 **Children in Families**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS

Prerequisite: PSYC100 or FMSC105. Credit only granted for: FMSC332 or FMST332. Formerly: FMST332.

A family life education approach to the study of children and families. Emphasis on the interaction of children with parents, siblings, extended kin, and the community.

0101	Amy Lewin TuTh 11:00am - 12:15pm	Seats (Total: 65) SPH 1303
0201	Amy Lewin TuTh 2:00pm - 3:15pm	Seats (Total: 65) ASY 1213
0301	Christine Schull MW 8:00am - 8:50am F 8:00am - 8:50am	Seats (Total: 65) SPH 1301 ONLINE

FMSC341 **Personal and Family Finance**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

Credit only granted for: FMSC341 or FMST341. Formerly: FMST341.

Individual and family financial strategies with emphasis on financial planning, savings, investments, insurance, income taxes, housing, and use of credit. Planning, analyzing, and controlling financial resources to resolve personal/family financial problems and to attain financial security.

0101	Manouchehr Mokhtari TuTh 6:30pm - 7:45pm	Seats (Total: 60) SPH 1312

0201	William Knight Class time/details on ELMs	Seats (Total: 49) ONLINE

FMSC381 **Poverty, Affluence, and Families**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit , D | General Education: DSHS, DVUP

Prerequisite: SOCY100 or SOCY105. Restriction: Must be in a major within SPHL-Family Science department. Credit only granted for: FMSC381 or FMST381. Formerly: FMST381.

Social, political, cultural and economic factors influencing income and wealth in American families.

0101	Kevin Roy MWF 9:00am - 9:50am	Seats (Total: 50) SPH 1302
0201	Laura Golojuch TuTh 3:30pm - 4:45pm	Seats (Total: 50) SPH 1303

FMSC383 **Delivery of Human Services to Families**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: FMSC330. Restriction: Must be in a major within SPHL-Family Science department. Credit only granted for: FMSC383 or FMST383. Formerly: FMST383.

Processes of service delivery with special emphasis upon relationships among managers, service providers and clients. The impact of human service systems on families.

0101	Allyson Pakstis MWF 11:00am - 11:50am	Seats (Total: 65) SPH 1301

FMSC399 **Independent Study**

(Perm req)

Credits: 1-6 | Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

FMSC431 **Family Crises and Intervention**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC100. Credit only granted for: FMSC431 or FMST431. Formerly: FMST431.

Family crises such as divorce, disability, substance abuse, financial problems, intra-familial abuse, and death. Theories and techniques for intervention and enhancement of family coping strategies.

0101	Robyn Zeiger TuTh 12:30pm - 1:45pm	Seats (Total: 65) SPH 1301

FMSC432 **Adult Development and Aging in Families**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC100; and (SOCY100 or SOCY105). And FMSC332; or must have completed a comparable development course. Restriction: Must be in a major within SPHL-Family Science department. Credit only granted for: FMSC432 or FMST432. Formerly: FMST432.

Theory, research, history, and programming related to adult development and aging in the intergenerational context of family.

0101	Mona Mittal MWF 10:00am - 10:50am	Seats (Total: 40) SPH 0302
0201	Mona Mittal MWF 12:00pm - 12:50pm	Seats (Total: 40) SPH 0302

FMSC460 **Violence in Families**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHS, DVUP

Prerequisite: SOCY100, SOCY105, or PSYC100. Credit only granted for: FMSC460 or FMST460. Formerly: FMST460.

Theories of child, spouse, and elder abuse in the family setting. Emphasis on historical, psychological, sociological and legal trends relating to physical, emotional, and sexual abuse. Introduction to methods for prevention and remediation.

0101	Christine Schull MWF 9:00am - 9:50am	Seats (Total: 65) SPH 1301

FMSC477 **Internship and Analysis in Family Science**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: FMSC383; and 9 credits in FMSC courses; and permission of SPHL-Family Science department. Restriction: Must be in a major within SPHL-Family Science department. Credit only granted for: FMSC477, FMST347, or FMST477. Formerly: FMST477.

A supervised internship and a seminar requiring analysis. Opportunities to integrate theory and practice including 120 hours of contracted field experience. Summer or fall internship contracts due May 1; Spring contracts due December 1. See department for application procedures.

0101	Kecia Ellick W 3:30pm - 5:00pm Contact instructor or department for details.	Seats (Total: 50) SPH 0302

FMSC487 **Legal Aspects of Family Problems**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: FMSC487 or FMST487. Formerly: FMST487.

Laws and legal procedures, with emphasis on adoption, marriage, divorce, annulment, and property rights, and how they affect family life.

0101	Kerry Tripp TuTh 9:30am - 10:45am	Seats (Total: 55) SPH 1302
0201	Kerry Tripp TuTh 12:30pm - 1:45pm	Seats (Total: 55) SPH 1303

FMSC498 **Special Topics: Family Science; Family Studies**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail

Special course topics in family studies.

Contact department for information to register for this course.

FMSC498H **Special Topics: Family Science; Family Studies Honors Thesis**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Special course topics in family studies.

Contact department for information to register for this course.

FMSC498P **Special Topics: Family Science**

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Special course topics in family studies.

0101	Adele Robinson	Seats (Total: 24)
	TuTh 9:30am - 10:45am	SQH 1105

FMSC498T **Special Topics: Family Science; Independent Study-Coding of Couple Therapy**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Special course topics in family studies.

0101	Norman Epstein	Seats (Total: 10)
	Contact instructor or department for details.	

FMSC640 **Family Therapy: Theory and Techniques**

Credits: 3

Grading Method: Regular, Audit

Credit only granted for: FMSC640 or FMST640. Formerly: FMST640.

Overview of fundamental theoretical concepts and clinical procedures in marital and family therapy, with an emphasis on those therapies which operate from a family systems perspective.

0101	Patricia Barros	Seats (Total: 11)
	M 10:00am - 12:45pm	Location: TBA

FMSC650 **Ethical, Legal, and Professional Principles in Marriage and Family Therapy**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Prerequisite: Permission of SPHL-Family Science department. Restriction: Must be in Couple and Family Therapy (Master's) program. Credit only granted for: FMSC650 or FMST650. Formerly: FMST650.

An introduction to the basic principles and practices of family therapy Emphasis on basic therapy skills applied to a family context and on professional ethics of the family practitioner. Addresses therapist's legal responsibilities and liabilities, certification, and licensure issues.

0101	Norman Epstein	Seats (Total: 25)
	Tu 9:00am - 11:45am	Location: TBA

FMSC652 **Diagnosis and Treatment of Mental and Emotional Disorders in Family Systems**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: FMSC651. Restriction: Must be in Couple and Family Therapy (Master's) program. Credit only granted for: FMSC652 or FMST652. Formerly: FMST652.

Systematic assessment, diagnosis, and treatment of mental and emotional disorders in couples and families. Utilization and critique of the current Diagnostic Statistical Manual Disorders (DSM).

0101	Leigh Leslie Tu 9:00am - 11:45am	Seats (Total: 20) Location: TBA

FMSC658 **Supervised Clinical Practice of Marriage and Family Therapy**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

The supervision of marriage and family therapy client contact. Various family systems models of supervision applied via extant methods, including live, videotaped, and audiotaped.

Prerequisite: FMST 650 and permission of instructor.

0101	Norman Epstein W 9:00am - 12:00pm	Seats (Total: 20) Location: TBA

FMSC689 **Research Internship**

(Perm req)

Credits: 3 Grading Method: Regular

Research experience resulting in a scholarly article suitable for publication in a peer-reviewed journal.

Contact department for information to register for this course.

FMSC698 **Advanced Topics in Family Science**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Arranged group study on specific topic which may vary from term to term.

Must have written permission of faculty member and chairperson.

Contact department for information to register for this course.

FMSC699 **Independent Study**

(Perm req)

Credits: 1-6

Grading Method: Regular, Audit

Contact department for information to register for this course.

FMSC710 **Maternal and Child Health from a Life Course Perspective**

Credits: 3

Grading Method: Regular, Audit

Credit only granted for: FMSC710 or FMST710. Formerly: FMST710.

Survey of current science in maternal and child health informed by a life course perspective. The surveyed topics include inutero exposure to toxins, feeding and growth, and effects of chronic stress, maternal and child health.

0101	Edmond Shenassa M 1:30pm - 4:15pm	Seats (Total: 12) Location: TBA

FMSC745 **Gender and Ethnicity in Family Therapy and Service Delivery**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Credit only granted for: FMSC745 or FMST745. Formerly: FMST745.

Major critiques of sources of racial, cultural, and gender bias in marital and family therapy and family service delivery. Addresses these issues in program development and clinical practice.

0101	Leigh Leslie Th 9:00am - 11:45am	Seats (Total: 15) Location: TBA

FMSC750 **Family and Health Policy**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Credit only granted for: FMSC750 or FMST750. Formerly: FMST750.

Development and analysis of public policies affecting the health and well-being of children, youth, and families, with an emphasis on low income and ethnic minority populations. Examination of social, economic, and political dynamics that influence family and health policies and the delivery of health care. Introduction to health advocacy within the US public health system.

0101	Elaine Anderson M 9:30am - 12:15pm	Seats (Total: 12) Location: TBA

FMSC789 **Non-Thesis Research**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Non-thesis option research papers.

Contact department for information to register for this course.

FMSC799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Must have written permission of faculty member and chairperson.

Contact department for information to register for this course.

FMSC879 **Preparing Future Faculty and Professionals Seminar**

(Perm req)

Credits: 1 Grading Method: Regular

Development of skills necessary to obtain and succeed in academic and non-academic positions in family science and public health. Topics include: career mapping, networking, teaching/teaching portfolios, independent research, publishing, grant writing, program and policy evaluation, consulting, job search, interviewing and negotiation, mentoring, diversity, work-family balance, and ethical issues in the workplace. Periodic visits to universities and government/nonprofit employers.

Development of skills necessary to obtain and succeed in academic and non-academic positions in family science and public health.

0101	Sandra Quinn	Seats (Total: 30)
	W 1:00pm - 1:50pm	Location: TBA

FMSC898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

FMSC899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

FREN French Fall 2018

FREN103 **Intensive Elementary French**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not have completed FREN102; and must not be a native/fluent speaker of French. Credit only granted for: FREN102 or FREN103.

Covers speaking, reading, writing, listening, and culture of French-speaking world.

0101	Callan Roten MW 10:00am - 10:50am F 10:00am - 10:50am Class time/details on ELMs	Seats (Total: 25) JMZ 1122 JMZ 2123 ONLINE
0102	Elizabeth Robinson MWF 11:00am - 11:50am Class time/details on ELMs	Seats (Total: 25) JMZ 0118 ONLINE
0103	Inaam Ngadi MWF 12:00pm - 12:50pm Class time/details on ELMs	Seats (Total: 25) JMZ 1122 ONLINE

FREN203 **Intensive Intermediate French**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit CORE: HO

Prerequisite: FREN103; or must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not be a native/fluent speaker of French. Credit only granted for: FREN201 or FREN203.

Covers speaking, reading, writing, listening, and culture of French-speaking world.

0101	Leandra Cormier MWF 9:00am - 9:50am Class time/details on ELMs	Seats (Total: 25) JMZ 2123 ONLINE
0102	Hannah Wegmann MWF 11:00am - 11:50am Class time/details on ELMs	Seats (Total: 25) JMZ 2123 ONLINE
0103	Leandra Cormier MWF 12:00pm - 12:50pm Class time/details on ELMs	Seats (Total: 25) JMZ 3205 ONLINE

0104	Elizabeth Robinson MWF 1:00pm - 1:50pm Class time/details on ELMs	Seats (Total: 20) JMZ 3205 ONLINE

FREN204 **French Grammar and Composition**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO

Prerequisite: FREN201 or FREN203; or must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Not open to native/fluent speakers of French.

Intensive study of French grammar and composition.

0101	Jillian Bruns MWF 10:00am - 10:50am Class time/details on ELMs	Seats (Total: 25) JMZ 2120 ONLINE
0102	Jillian Bruns MWF 11:00am - 11:50am Class time/details on ELMs	Seats (Total: 25) JMZ 2120 ONLINE

FREN211 **French Reading and Conversation**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO

Prerequisite: FREN201 or FREN203. Restriction: Must not be a native/fluent speaker of French.

Practice in spoken French at intermediate level based on readings in a variety of genres. Written homework and exams.

Contact department for information to register for this course.

FREN243 **Masterpieces in French and Francophone Cinemas**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HA, D | General Education: DSHU

This course, taught in English, will present a large array of films directed by famous French directors (Jean Renoir, Robert Bresson, Jean-Luc Godard, Agnes Varda, etc..) and Francophone filmmakers (Arcand, Sembene) who were internationally known in their time and have had a considerable influence on today's filmmakers in the U.S. (Tarantino, Lynch, Lee, etc..) and abroad (Sissoko, Angelopoulos, VonTrier, ect..).

Also offered as FILM298A. Credit only granted for FREN243 or FILM298A.

0101	Caroline Eades TuTh 3:30pm - 4:45pm	Seats (Total: 27) JMZ 2117

FREN250 **Introduction to Cultural and Textual Analysis**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HL | General Education: DSHU

Prerequisite: FREN204; or students who have taken courses with comparable content may contact the department. Restriction: Must not be a native/fluent speaker of French. Credit only granted for: FREN250 or FREN250H.

Introduction to cultural and textual analysis of selected readings from various genres in French literature. Taught in French.

Also offered as FREN 250H.

0101	Morgan McMahon MWF 10:00am - 10:50am	Seats (Total: 25) JMZ 1117
0201	Morgan McMahon MWF 11:00am - 11:50am	Seats (Total: 25) JMZ 1122

FREN250H **Introduction to Cultural and Textual Analysis**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HL | General Education: DSHU

Prerequisite: FREN204; or students who have taken courses with comparable content may contact the department. Restriction: Must not be a native/fluent speaker of French. Credit only granted for: FREN250 or FREN250H.

Introduction to cultural and textual analysis of selected readings from various genres in French literature. Taught in French.

For general honors students only. Also offered as FREN 250.

0101	Morgan McMahon MWF 10:00am - 10:50am	Seats (Total: 25) JMZ 1117
0201	Morgan McMahon MWF 11:00am - 11:50am	Seats (Total: 25) JMZ 1122

FREN269F **Special Topics in Study Abroad II; French Conversation I**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

FREN269G **Special Topics in Study Abroad II; French Conversation**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

FREN269P **Special Topics in Study Abroad II; Perspectives on Contemporary France**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

FREN301 **Composition and Style**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: FREN250; or students who have taken courses with comparable content may contact the department. Restriction: Must not be a native/fluent speaker of French.

Grammatical analysis, elements of style; range of written genres.

0101	Mercedes Baillargeon TuTh 12:30pm - 1:45pm	Seats (Total: 20) JMZ 2123
0201	Erica Cefalo MW 2:00pm - 3:15pm	Seats (Total: 20) JMZ 1215

FREN302 **Translation: French to English**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: FREN301; or students who have taken courses with comparable content may contact the department.

Practicum in translation primarily from French to English; contrastive analysis.

0101	Herve Campangne MW 3:30pm - 4:45pm	Seats (Total: 20) JMZ 0208

FREN303 **Translation: English to French**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: FREN301; or students who have taken courses with comparable content may contact the department.

Practicum in translation primarily from English to French; contrastive analysis.

0101	Catherine Favier-Kelly TuTh 11:00am - 12:15pm	Seats (Total: 20) KEY 0124

FREN306 **Commercial French I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: FREN301; or students who have taken courses with comparable content may contact the department.

Introduction to commercial French including correspondence and business terminology. Emphasis on cross-cultural concepts needed for successful interaction within business settings. Taught in French.

Contact department for information to register for this course.

FREN311 **Advanced Oral Expression**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: FREN250; or students who have taken courses with comparable content may contact the department. Restriction: Must not be a native/fluent speaker of French.

Linguistic and thematic analysis of written, audio, and visual texts. Focus on aural and oral skills. Some written assignments and evaluation.

Contact department for information to register for this course.

FREN312 **France Today**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: FREN301; or students who have taken courses with comparable content may contact the department. Restriction: Must not be a native/fluent speaker of French.

Analysis and discussion of current events and institutions using variou French media resources.

0101	Charlee Bezilla	Seats (Total: 25)
	TuTh 2:00pm - 3:15pm	JMZ 3205

FREN351 **From Romanticism to the Age of Modernism and Beyond**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: FREN301; or students who have taken courses with comparable content may contact the department.

A survey of the chief authors and major movements of French literature from Pre-Romanticism to the present.

Also offered as FREN 351H.

0101	Caroline Eades	Seats (Total: 25)
	TuTh 12:30pm - 1:45pm	JMZ 0205

FREN351H **From Romanticism to the Age of Modernism and Beyond**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: FREN301; or students who have taken courses with comparable content may contact the department.

A survey of the chief authors and major movements of French literature from Pre-Romanticism to the present.

Also offered as FREN351.

0101	Caroline Eades	Seats (Total: 25)
	TuTh 12:30pm - 1:45pm	JMZ 0205

FREN352 **From the Age of Epic and Romance to the Enlightenment**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: FREN301; or students who have taken courses with comparable content may contact the department.

A survey of the chief authors and major movements of French literature from the Middle Ages to the end of the 18th century.

Contact department for information to register for this course.

FREN369F **Special Topics in Study Abroad III; Third Year French I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

FREN369G **Special Topics in Study Abroad III; Third-Year French II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

FREN369Y **Special Topics in Study Abroad III; Fourth-Year French I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

FREN386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Prerequisite: Permission of ARHU-School of Languages, Literatures, and Cultures department. Restriction: Junior standing or higher.

Contact department for information to register for this course.

FREN387 **Critical Writing on France and the French-Speaking World**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: FREN301. Restriction: Not open to Native speakers.

Intensive writing course based on focused study of issues and concerns drawn from French and Francophone literatures, films, and cultures. Elements of style, review of grammar. Taught in French.

0101	Erica Cefalo	Seats (Total: 20)
	MW 3:30pm - 4:45pm	JMZ 3205

FREN399 **Directed Study in French**

(Perm req)

Credits: 1-3 Grading Method: Regular

Advanced undergraduates develop syllabus, reading list, and course requirements with interested faculty member. Designed for in-depth study of material not offered in regular courses or as expansion of course material. To be planned during semester preceding registration.

Supervised work under professor of student's choice with permission of instructor. Contact department for details.

Contact department for information to register for this course.

FREN399A **Directed Study in French**

Credits: 3 Grading Method: Regular

Advanced undergraduates develop syllabus, reading list, and course requirements with interested faculty member. Designed for in-depth study of material not offered in regular courses or as expansion of course material. To be planned during semester preceding registration.

Contact department for information to register for this course.

FREN401 **Writing with Style**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: FREN301; or permission of ARHU-School of Languages, Literatures, and Cultures department.

Advanced composition and stylistic analysis.

Contact department for information to register for this course.

FREN421 **Francophone African Film**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHU, DVUP

Also offered as: FILM421. Credit only granted for: FREN421 or FILM421.

Imaginary and Memory in the reality of Francophone African Film from 1960-present. Taught in English.

0101	Valerie Orlando	Seats (Total: 32)
	MW 3:30pm - 4:45pm	JMZ 0205

FREN495H **Honors Thesis Research**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be admitted to the departmental honors program.

The writing of a paper under the direction of a professor in this department and an oral examination. Required to fulfill the departmental honors requirement.

Contact department for information to register for this course.

FREN498A **Special Topics in French Literature; France and the United States: Understanding French-American Relations, Past and Present**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Selected topics in French literature.

Prerequisites: FREN387 and FREN351 or FREN352; or Permission of ARHU-French & Italian Languages & Literatures department. Students will study French perceptions of the United States and American views of France through selected texts and media.

0101	Herve Campangne	Seats (Total: 25)
	MW 2:00pm - 3:15pm	JMZ 0208

FREN498B **Special Topics in French Literature; Twentieth through Twenty-First Century French Novel**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Selected topics in French literature.

Prerequisites: FREN387 and FREN351 or FREN352; or Permission of ARHU-French & Italian Languages & Literatures department. Students will initiate the study of 20th-21st century novels, demonstrating, in particular, their relationship to history and society.

0101	Joseph Brami	Seats (Total: 25)
	Tu 2:00pm - 3:15pm	JMZ 0118
	Th 2:00pm - 3:15pm	JMZ 1117

FREN499 **Special Topics in French Studies**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

An aspect of French studies, the specific topic to be announced each time the course is offered.

Contact department for information to register for this course.

FREN499X **Special Topics in French Studies; Directed Study in French**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An aspect of French studies, the specific topic to be announced each time the course is offered.

Contact department for information to register for this course.

FREN699N **Seminar; Sexuality, Subversion, Identity in Autofiction**

Credits: 3 Grading Method: Regular, Audit

Topic to be determined each semester.

Also offered as WMST698V. Credit only granted for FREN699N or WMST698V. Focus is placed on "autofiction" as a genre, and particularly on the intersections between public/private, aesthetics and politics, and sexuality and identity in the first-person narrative since 1980. Taught in French.

0101	Mercedes Baillargeon	Seats (Total: 10)
	Tu 4:30pm - 7:15pm	JMZ 2125

FREN699R **Seminar; Ninteenth Century French Novel**

Credits: 3 Grading Method: Regular, Audit

Topic to be determined each semester.

The objective is to initiate graduate students, through a number of major works, to the philosophy and practice of the 19th century French novel.

0101	Joseph Brami	Seats (Total: 10)
	Th 4:30pm - 7:15pm	JMZ 2125

FREN798 **Master's Independent Study**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Contact department for information to register for this course.

FREN799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

FREN889 **Doctoral Independent Study**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Contact department for information to register for this course.

FREN898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

FREN899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

GEMS Gemstone Fall 2018

GEMS100 **Freshman Honors Colloquium: Introduction to Gemstone**

Credits: 1 Grading Method: Regular

Restriction: Freshman standing; and must be in the Gemstone program.

Orienting new Gemstone students to the university and to the program through a variety of team building activities, resources, and skill exploration exercises. Students will also examine and discuss areas such as liberal education, diversity, service, arts, current events, academic integrity, and leadership style.

These classes are scheduled in the Ellicott building.

0101	Leah Kreimer Tobin Tu 11:00am - 12:15pm	Seats (Total: 11) ELL 0100D
0102	Leah Kreimer Tobin Tu 2:00pm - 3:15pm	Seats (Total: 11) ELL 0100A
0103	Leah Kreimer Tobin Tu 4:45pm - 6:00pm	Seats (Total: 11) ELL 0100D
0104	Leah Kreimer Tobin W 10:00am - 11:15am	Seats (Total: 11) ELL 0100D
0105	Leah Kreimer Tobin W 12:30pm - 1:45pm	Seats (Total: 11) ELL 0100D

0106	Leah Kreimer Tobin W 2:00pm - 3:15pm	Seats (Total: 11) ELL 0100B
0107	Leah Kreimer Tobin W 3:30pm - 4:45pm	Seats (Total: 11) ELL 0100D
0108	Leah Kreimer Tobin W 4:45pm - 6:00pm	Seats (Total: 11) ELL 0100B
0109	Leah Kreimer Tobin Th 9:30am - 10:45am	Seats (Total: 11) ELL 0100A
0110	Leah Kreimer Tobin Th 12:30pm - 1:45pm	Seats (Total: 11) ELL 0100A
0111	Leah Kreimer Tobin Th 2:00pm - 3:15pm	Seats (Total: 11) ELL 0100D
0112	Leah Kreimer Tobin Th 4:30pm - 5:45pm	Seats (Total: 11) ELL 0100D
0113	Leah Kreimer Tobin Th 5:00pm - 6:15pm	Seats (Total: 11) ELL 0100A
0114	Leah Kreimer Tobin F 10:30am - 11:45am	Seats (Total: 11) ELL 0100D
0115	Leah Kreimer Tobin F 11:15am - 12:30pm	Seats (Total: 11) ELL 0100A
0116	Leah Kreimer Tobin F 1:30pm - 2:45pm	Seats (Total: 11) ELL 0100D

GEMS202 **Team Dynamics and Research Methodology**

Credits: 2 Grading Method: Regular General Education: DSSP

Prerequisite: GEMS100, GEMS102, and GEMS104. Corequisite: GEMS296. Restriction: Must be in the Gemstone program; and sophomore standing or higher.

This experiential course is designed to foster an understanding of effective team dynamics and basic research methodology. It will teach skills applicable to Gemstone team research and the writing of a team thesis. Upperclass Gemstone students serve as discussion facilitators. Students participate in their Gemstone teams and develop a draft of their team thesis proposal.

0101	Frank Coale, Kristan Skendall	Seats (Total: 168)
	Tu 5:00pm - 6:30pm	EGR 1202
	Contact instructor or department for details.	

GEMS208A **Special Topics in Leadership and Team Development; Team Dynamics and Research Methodology: First Time Section Leader**

Credits: 1-3 Grading Method: Regular

Principles, methods and types of leadership and team development with a emphasis on group discussion and decision making. Reading, discussion and exploration of the basic team concept, communications for winning scenarios, goal setting, problem solving, conflict resolution and research methods.

Restriction: Must be in the Gemstone program.

0101	Kristan Skendall	Seats (Total: 12)
	Contact instructor or department for details.	

GEMS208B **Special Topics in Leadership and Team Development; Team Dynamics and Research Methodology: Returner Section Leader**

Credits: 1-3 Grading Method: Regular

Principles, methods and types of leadership and team development with a emphasis on group discussion and decision making. Reading, discussion and exploration of the basic team concept, communications for winning scenarios, goal setting, problem solving, conflict resolution and research methods.

Restriction: Must be in the Gemstone program.

0101	Kristan Skendall	Seats (Total: 12)
	Contact instructor or department for details.	

GEMS208C **Special Topics in Leadership and Team Development; Introduction to Gemstone: First Time Section Leader**

Credits: 1-3 Grading Method: Regular, Audit

Principles, methods and types of leadership and team development with a emphasis on group discussion and decision making. Reading, discussion and exploration of the basic team concept, communications for winning scenarios, goal setting, problem solving, conflict resolution and research methods.

Restriction: Must be in the Gemstone program. These classes are scheduled in the Ellicott building.

0101	Leah Kreimer Tobin, Kristan Skendall	Seats (Total: 23)
	Contact instructor or department for details.	

GEMS208D **Special Topics in Leadership and Team Development; Introduction to Gemstone: Returner Section Leader**

Credits: 1-3 Grading Method: Regular, Audit

Principles, methods and types of leadership and team development with a emphasis on group discussion and decision making. Reading, discussion and exploration of the basic team concept, communications for winning scenarios, goal setting, problem solving, conflict resolution and research methods.

Restriction: Must be in the Gemstone program. These classes are scheduled in the Ellicott building.

0101	Kristan Skendall, Leah Kreimer Tobin	Seats (Total: 10)
	Contact instructor or department for details.	

GEMS208E **Special Topics in Leadership and Team Development; GEMS Connect**

Credits: 1-3 Grading Method: Regular, Audit

Principles, methods and types of leadership and team development with a emphasis on group discussion and decision making. Reading, discussion and exploration of the basic team concept, communications for winning scenarios, goal setting, problem solving, conflict resolution and research methods.

Restriction: Must be in the Gemstone program.

0101	Jessica Lee	Seats (Total: 30)
	Contact instructor or department for details.	

GEMS208L **Special Topics in Leadership and Team Development; GEMS GSC Executive Board**

Credits: 1-3 Grading Method: Regular, Audit

Principles, methods and types of leadership and team development with a emphasis on group discussion and decision making. Reading, discussion and exploration of the basic team concept, communications for winning scenarios, goal setting, problem solving, conflict resolution and research methods.

0101	Jessica Lee Contact instructor or department for details.	Seats (Total: 6)	

GEMS296 **Team Project Seminar I**

Credits: 1 Grading Method: Regular

Prerequisite: GEMS100, GEMS102, and GEMS104. Corequisite: GEMS202. Restriction: Must be in the Gemstone program with sophomore standing in a research team.

This is the first of six seminars during which Gemstone students carry out multidisciplinary research with the guidance of a faculty mentor. The teams develop their working relationship, start their literature search, define their research question, and set short & long term goals.

0101	Nishanth Sunny Th 6:45pm - 7:45pm W 7:30pm - 8:30pm	Seats (Total: 14) HBK 0123 JMZ 1224	
0102	Anil Deane Tu 6:45pm - 7:45pm M 5:00pm - 5:50pm	Seats (Total: 14) ATL 4301 HBK 0123	
0103	Natasha Almeida e Andrade W 8:00am - 8:50am M 6:00pm - 6:50pm	Seats (Total: 14) EGR 1179 EGR 1102	
0104	Giuliano Scarcelli Contact instructor or department for details. F 3:00pm - 3:50pm	Seats (Total: 14) Location: TBA	Lab
0105	Kenneth Frauwirth M 5:00pm - 5:50pm Tu 8:00pm - 8:50pm	Seats (Total: 14) MCB 1121 Location: TBA	
0106	Bryan Quinn Tu 6:40pm - 7:30pm F 3:00pm - 3:50pm	Seats (Total: 14) EGR 1110 EGR 1110	Lab

0107	Mary Bowden Th 6:00pm - 6:50pm W 8:00am - 8:50am	Seats (Total: 14) Location: TBA HBK 0108
0108	Wilbur Hadden W 5:00pm - 5:50pm Tu 6:30pm - 7:20pm	Seats (Total: 14) ELL 0100D MTH 0305
0109	Jae Kun Shim Contact instructor or department for details.	Seats (Total: 14)
0110	Birthe Kjellerup M 6:00pm - 8:00pm	Seats (Total: 14) EGR 1179
0111	Aravind Srinivasan Th 8:30am - 9:00am Th 5:30pm - 6:00pm	Seats (Total: 14) AVW 3258 AVW 3258
0112	John Daristotle, Peter Kofinas M 5:00pm - 5:50pm Tu 6:30pm - 7:30pm	Seats (Total: 14) CHE 2113 MTH 0303
0113	Kristan Skendall Contact instructor or department for details.	Seats (Total: 14)

GEMS297 **Team Project Seminar II**

Credits: 2 Grading Method: Regular

Restriction: Must be in the Gemstone program with sophomore standing in a research team.

This is the second of six seminars during which Gemstone students carry out interdisciplinary research with the guidance of a faculty mentor. The team develops its website, prepares and presents its research proposal and begins its research project.

0113	Kristan Skendall Contact instructor or department for details.	Seats (Total: 5)

GEMS396 **Team Project Seminar III**

Credits: 2 Grading Method: Regular

Prerequisite: GEMS297. Restriction: Must be in the Gemstone program with junior standing in a research team.

This is the third of six seminars during which Gemstone students carry out interdisciplinary research with the guidance of a faculty mentor. The team presents its progress at the Gemstone Colloquia.

0101	Matthias Zwicker M 8:00am - 8:50am Th 5:00pm - 5:50pm	Seats (Total: 14) Location: TBA Location: TBA
0102	Kevin Knapstein Th 4:45pm - 6:45pm	Seats (Total: 14) Location: TBA
0103	Mohamad Al-Sheikhly M 6:30pm - 8:50pm Th 8:00am - 8:50am	Seats (Total: 14) Location: TBA Location: TBA
0104	Jose Aranda-Espinoza Th 3:30pm - 4:20pm M 8:00am - 8:50am	Seats (Total: 14) ESJ 1212 Location: TBA
0105	Joanna Goger M 11:00am - 11:50am W 11:00am - 11:50am	Seats (Total: 14) KEY 0119 SYM 0215
0106	Bao Yang W 8:30am - 9:20am F 8:00am - 8:50am	Seats (Total: 14) Location: TBA Location: TBA
0107	Ashok Agrawala W 5:00pm - 5:50pm Th 7:00pm - 7:50pm	Seats (Total: 14) Location: TBA Location: TBA
0108	Sean Barnes, Margret Bjarnadottir Tu 11:00am - 12:00pm Tu 6:30pm - 7:30pm	Seats (Total: 14) Location: TBA EGR 3111
0109	Anil Deane M 9:00am - 9:50am Tu 5:30pm - 6:30pm	Seats (Total: 14) Location: TBA ATL 4301
0110	Lester Schultheis F 7:00pm - 9:00pm	Seats (Total: 14) JMZ 1123

0111	David Akin M 3:30pm - 4:30pm W 3:00pm - 4:30pm	Seats (Total: 12) Location: TBA KEY 0107
0113	Kristan Skendall Contact instructor or department for details.	Seats (Total: 5)

GEMS397 **Team Project Seminar IV**

Credits: 2 Grading Method: Regular

Prerequisite: GEMS396. Restriction: Must be in the Gemstone program with junior standing in a research team.

This is the fourth of six seminars during which Gemstone students carry out interdisciplinary research with the guidance of a faculty mentor. The team further develops its website. Also they will prepare and present the team project in the poster session of Undergraduate Research Day.

0113	Kristan Skendall Contact instructor or department for details.	Seats (Total: 5)

GEMS496 **Project Writing Seminar**

Credits: 2 Grading Method: Regular

Prerequisite: GEMS397. Restriction: Must be in the Gemstone program.

This is the fifth of six seminars during which Gemstone students carry out research with the guidance of a faculty mentor. The team finishes the analysis of their data and writes and edits its team thesis.

0101	Robert Newcomb Th 6:30pm - 7:20pm Th 7:20pm - 8:10pm W 7:30pm - 8:30pm	Seats (Total: 14) Location: TBA Location: TBA JMZ 0118
0102	Stephen Penny MW 5:00pm - 5:50pm	Seats (Total: 14) ESJ 1212
0103	Kaye Brubaker W 6:30pm - 7:20pm F 2:00pm - 2:50pm	Seats (Total: 14) MTH 0402 Location: TBA

0104	Min Ouyang Tu 6:00pm - 6:50pm Th 5:00pm - 5:50pm	Seats (Total: 14) Location: TBA Location: TBA
0105	Ryan Sochol M 8:00pm - 8:50pm W 5:00pm - 5:50pm	Seats (Total: 14) SQH 1111 Location: TBA
0106	Debabrata Biswas M 5:00pm - 5:50pm W 5:00pm - 5:50pm	Seats (Total: 14) JMZ 1103 JMZ 1103
0107	Kennedy Paynter M 5:00pm - 5:50pm Tu 4:00pm - 4:50pm	Seats (Total: 14) Location: TBA Location: TBA
0108	Jin-Oh Hahn M 7:00pm - 7:50pm Tu 7:00pm - 7:50pm	Seats (Total: 14) Location: TBA JMZ 2120
0109	David Akin W 8:00am - 10:00am W 7:00pm - 8:15pm	Seats (Total: 14) ESJ B0320 Location: TBA
0110	Raymond Adomaitis M 6:30pm - 7:30pm W 6:30pm - 7:30pm	Seats (Total: 14) Location: TBA Location: TBA
0111	Pamela Abshire Tu 8:00pm - 8:50pm F 2:00pm - 2:50pm	Seats (Total: 14) EGR 3111 EGR 3111
0113	Kristan Skendall Contact instructor or department for details.	Seats (Total: 3)

GEMS497 **Team Thesis Defense**

Credits: 2 Grading Method: Regular General Education: DSSP

Prerequisite: GEMS396. Restriction: Must be in the Gemstone program.

Gemstone teams will complete the team research project and thesis. The team will formally present the thesis to experts in the area of interest at a Team Thesis Conference before final submission.

0113	Kristan Skendall	Seats (Total: 5)
	Contact instructor or department for details.	

GEOG Geographical Sciences Fall 2018

GEOG110 The World Today: Global Perspectives

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, DVUP

The most critical issue facing the world today is the sustainability of both human and physical systems in the 21st century. This class uses the context of regions of the world to explore the 21st century issues of climate change, development, politics, economy, and demography. Each region will be used to highlight aspects of sustainability.

FC01	Rachel Berndtson	Seats (Total: 40)	
	MW 4:30pm - 5:45pm	KEY 0116	
	Restricted to students in Freshmen Connection.		

GEOG130 Developing Countries

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB, D | General Education: DSHS, DSSP

An introduction to the geographic characteristics of the development problems and prospects of developing countries. Spatial distribution of poverty, employment, migration and urban growth, agricultural productivity, rural development, policies and international trade. Portraits of selected developing countries.

0201	Ronald Luna	Seats (Total: 24)	
	MW 11:00am - 11:50am F 9:00am - 9:50am	LEF 2205 LEF 1201	Discussion
0202	Ronald Luna	Seats (Total: 24)	
	MW 11:00am - 11:50am Th 9:30am - 10:20am	LEF 2205 LEF 1220	Discussion
0203	Ronald Luna	Seats (Total: 24)	
	MW 11:00am - 11:50am Th 9:30am - 10:20am	LEF 2205 ESJ B0320	Discussion
0204	Ronald Luna	Seats (Total: 24)	
	MW 11:00am - 11:50am Th 11:00am - 11:50am	LEF 2205 ESJ B0320	Discussion

0205	Ronald Luna MW 11:00am - 11:50am Th 11:00am - 11:50am	Seats (Total: 24) LEF 2205 JMZ 1124	Discussion
0206	Ronald Luna MW 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 24) LEF 2205 LEF 0135	Discussion
0207	Ronald Luna MW 11:00am - 11:50am F 9:00am - 9:50am	Seats (Total: 24) LEF 2205 LEF 1171	Discussion
0208	Ronald Luna MW 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 24) LEF 2205 TWS 0214	Discussion
0209	Ronald Luna MW 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 24) LEF 2205 HBK 0125	Discussion
0210	Ronald Luna MW 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 24) LEF 2205 PLS 1146	Discussion
FC01	Ronald Luna TuTh 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 90) MMH 1400	

GEOG140 **Natural Disasters: Earthquakes, Floods, and Fires**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: PS | General Education: DSNS, SCIS

Catastrophic Environmental Events (CCE) that are becoming more common i this time of global environmental change and it is essential that today's students be equipped with the knowledge and skills to be leaders as we, as a society, understand the upheaval that these CCEs are causing. Students will examine how CEEs shape human society and ecosystem from the interdisciplinary perspective afforded by the field of Geography. Students will use the latest geographic science concepts and techniques in exploring these events. Using satellite imagery they will gain a multi-scale perspective of the ecological and societal aspects of the events.

0101	Keith Yearwood MW 1:00pm - 1:50pm F 9:00am - 9:50am	Seats (Total: 25) LEF 2205 JMZ 3120	Discussion
0102	Keith Yearwood MW 1:00pm - 1:50pm F 10:00am - 10:50am	Seats (Total: 25) LEF 2205 LEF 1201	Discussion
0103	Keith Yearwood MW 1:00pm - 1:50pm Th 11:00am - 11:50am	Seats (Total: 25) LEF 2205 WDS 0104	Discussion
0104	Keith Yearwood MW 1:00pm - 1:50pm F 11:00am - 11:50am	Seats (Total: 25) LEF 2205 LEF 1201	Discussion
0105	Keith Yearwood MW 1:00pm - 1:50pm Th 9:30am - 10:20am	Seats (Total: 25) LEF 2205 KNI 1105	Discussion
0106	Keith Yearwood MW 1:00pm - 1:50pm Th 9:30am - 10:20am	Seats (Total: 25) LEF 2205 KEY 0121	Discussion
FC01	Keith Yearwood MW 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 70) LEF 2166	

GEOG170 **Introduction to Methods of Geospatial Intelligence and Analysis**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: MS | General Education: DSNS

Introduction to technical methods used in gathering, analyzing, and presenting geospatial information, addressing the needs of geospatial analysis, such as environmental monitoring, situational awareness, disaster management, and human systems. Topics include basics of locational reference systems, map projections, satellite and airborne remote sensing, global positioning systems, geographic information systems, cartography, and introductory statistics and probability. The course is a gateway to more advanced technical classes in geoinformatics.

0101	Micah Brachman MWF 2:00pm - 2:50pm	Seats (Total: 240) ESJ 0202	

FC01	Brady Woods	Seats (Total: 30)
	TuTh 7:30pm - 8:45pm	LEF 1201
	Restricted to students in Freshmen Connection.	

GEOG201 **Geography of Environmental Systems**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSNL (if taken with GEOG211)

A systematic introduction to the processes and associated forms of the atmosphere and earth's surfaces emphasizing the interaction between climatology, hydrology and geomorphology.

0101	Keith Yearwood	Seats (Total: 240)
	TuTh 9:30am - 10:45am	ESJ 0202

GEOG211 **Geography of Environmental Systems Laboratory**

Credits: 1 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in GEOL120, GEOL100, or GEOG201.

A laboratory course to accompany GEOG 201. Analysis of the components of the earth's energy balance using basic instrumentation; weather map interpretation; soil analysis; the application of map and air photo interpretation techniques to landform analysis.

This is a 2 hr, 1 credit lab which parallels GEOG 201; Required for GEOG majors; optional for non-majors.

0101	Joshua Wayland	Seats (Total: 24)	
	Class time/details on ELMs	ONLINE	Lab
0201	Joshua Wayland	Seats (Total: 24)	
	Class time/details on ELMs	ONLINE	Lab
0301	Joshua Wayland	Seats (Total: 24)	
	Class time/details on ELMs	ONLINE	Lab
0401	Joshua Wayland	Seats (Total: 24)	
	Class time/details on ELMs	ONLINE	Lab
0501	Joshua Wayland	Seats (Total: 24)	
	Class time/details on ELMs	ONLINE	Lab

0601	Ana Sanchez-Rivera Class time/details on ELMs	Seats (Total: 24) ONLINE	Lab
0701	Ana Sanchez-Rivera Class time/details on ELMs	Seats (Total: 24) ONLINE	Lab
0801	Ana Sanchez-Rivera Class time/details on ELMs	Seats (Total: 24) ONLINE	Lab
0901	Brian Slobotsky, Ana Sanchez-Rivera Class time/details on ELMs	Seats (Total: 24) ONLINE	Lab
1001	Andrew Lazara, Ana Sanchez-Rivera Class time/details on ELMs	Seats (Total: 24) ONLINE	Lab

GEOG306 **Introduction to Quantitative Methods for the Geographic Environmental Sciences**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: FSAR

Credit only granted for: BIOM301, BMGT230, CCJS200, ECON230, ECON321, EDMS451, GEOG306, GEOL351, GVPT422, JOUR405, PSYC200 or SOCY201. (These courses do not necessarily meet the same major requirements-check with your advisor to see which of these courses will count for your major).

Essentials in the quantitative analysis of spatial and other data, with a particular emphasis on statistics and programming. Topics include data display, data description and summary, statistical inference and significance tests, analysis of variance, correlation, regression, and some advanced concepts, such as matrix methods, principal component analysis, and spatial statistics. Students will develop expertise in data analysis using advanced statistical software.

Students must pay a $40.00 laboratory materials fee.

0101	Naijun Zhou MW 9:00am - 9:50am F 9:00am - 11:00am	Seats (Total: 25) LEF 1158 LEF 1138	Lab
0102	Naijun Zhou MW 9:00am - 9:50am Th 11:00am - 1:00pm *Restriction: Open to GEOG, GIS, & ENSP-Coastal, Land Use, Global majors only.*	Seats (Total: 25) LEF 1158 LEF 1136	Lab

GEOG330 **As the World Turns: Society and Sustainability in a Time of Great Change**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, DVUP, SCIS

Credit only granted for: GEOG330, GEOG360, or GEOG362. Formerly: GEOG362.

Cultural geography course on society and sustainability. Culture is the basic building block that is key to sustainability of societies. Course will cover sustainability of societies on different scales, examining local, regional, and worldwide issues. Sustainability will be examined as a key element of environmental sustainability. How societies adjust to rapid world change will be examined as a positive and/or negative factor in sustainability.

0101	Rachel Berndtson MW 1:00pm - 1:50pm F 2:00pm - 2:50pm	Seats (Total: 25) ESJ 2204 KNI 1105	Discussion
0102	Rachel Berndtson MW 1:00pm - 1:50pm F 9:00am - 9:50am	Seats (Total: 25) ESJ 2204 KNI 1105	Discussion
0103	Rachel Berndtson MW 1:00pm - 1:50pm F 11:00am - 11:50am	Seats (Total: 25) ESJ 2204 HBK 0123	Discussion
0104	Rachel Berndtson MW 1:00pm - 1:50pm F 12:00pm - 12:50pm	Seats (Total: 25) ESJ 2204 ASY 3203	Discussion
0105	Rachel Berndtson MW 1:00pm - 1:50pm F 10:00am - 10:50am	Seats (Total: 25) ESJ 2204 KNI 1105	Discussion
0106	Rachel Berndtson MW 1:00pm - 1:50pm F 1:00pm - 1:50pm	Seats (Total: 25) ESJ 2204 ASY 3215	Discussion

GEOG332 **Economic Geography**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: GEOG203, GEOG303, or GEOG332. Formerly: GEOG303.

Principles of managing scarce resources in a world where everyone faces tradeoffs across both time and space. Focuses on the relationship between globalization processes and changing patterns of locational advantages, production, trade, population, socioeconomic and environmental grace and sustainability.

0101	Julie Silva MW 2:00pm - 2:50pm F 9:00am - 9:50am	Seats (Total: 25) TWS 0310 JMZ 1124	 Discussion
0102	Julie Silva MW 2:00pm - 2:50pm F 12:00pm - 12:50pm	Seats (Total: 25) TWS 0310 LEF 1201	 Discussion
0103	Julie Silva MW 2:00pm - 2:50pm F 1:00pm - 1:50pm	Seats (Total: 25) TWS 0310 LEF 1201	 Discussion
0104	Julie Silva MW 2:00pm - 2:50pm F 10:00am - 10:50am	Seats (Total: 25) TWS 0310 KEY 1117	 Discussion

GEOG372 Remote Sensing

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Principles of remote sensing in relation to photographic, thermal infrared and radar imaging. Methods of obtaining quantitative information from remotely-sensed images. Interpretation of remotely-sensed images emphasizing the study of spatial and environmental relationships.

Students must pay a $40.00 laboratory materials fee.

0101	Petr Potapov TuTh 9:30am - 10:45am F 9:00am - 11:00am	Seats (Total: 25) LEF 1158 LEF 1136	 Lab
0102	Petr Potapov TuTh 9:30am - 10:45am F 11:00am - 1:00pm *Restriction: Open to GEOG, GIS, & ENSP-Coastal, Land Use, Global majors only.*	Seats (Total: 25) LEF 1158 LEF 1136	 Lab

GEOG373 Geographic Information Systems

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Characteristics and organization of geographic data; creation and use of digital geospatial databases; metadata; spatial data models for thematic mapping and map analysis; use of geographic information system in society, government, and business. Practical training with use of advanced software and geographic databases.

Students must pay a $40.00 laboratory materials fee.

0101	Naijun Zhou	Seats (Total: 25)	
	MW 10:00am - 10:50am Th 1:00pm - 3:00pm	TYD 2109 LEF 1136	Lab
	Restriction: Open to GEOG, GIS, & ENSP-Coastal, Land Use, Global majors only.		
0102	Naijun Zhou	Seats (Total: 25)	
	MW 10:00am - 10:50am F 1:00pm - 3:00pm	TYD 2109 LEF 1136	Lab
	Restriction: Open to GEOG, GIS, & ENSP-Coastal, Land Use, Global majors only.		
0103	Naijun Zhou	Seats (Total: 25)	
	MW 10:00am - 10:50am F 3:00pm - 5:00pm	TYD 2109 LEF 1136	Lab

GEOG384 **Internship in Geography I**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail

Prerequisite: GEOG211, GEOG306, GEOG212, and GEOG201; and (ENGL393 or ENGL390).
Restriction: Must be in Geography program.

Supervised field training to provide career experience. Introduction to professional level activities, demands, opportunities. Placement at a public agency, non-profit organization, or private firm. Participation requires application to the internship advisor in preceding semester.

0101	Allen Eney	Seats (Total: 25)
	Contact instructor or department for details.	

GEOG384H **Internship in Geography I**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail

Prerequisite: GEOG211, GEOG306, GEOG212, and GEOG201; and (ENGL393 or ENGL390).
Restriction: Must be in Geography program.

Supervised field training to provide career experience. Introduction to professional level activities, demands, opportunities. Placement at a public agency, non-profit organization, or private firm. Participation requires application to the internship advisor in preceding semester.

0101	Allen Eney	Seats (Total: 10)
	Contact instructor or department for details.	

GEOG385 **Internship in Geography II**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GEOG211, GEOG306, GEOG212, and GEOG201; and must have completed a Junior (Professional) English course. Restriction: Must be in Geography program.

Supervised field training to provide career experience. Introduction to professional-level activities, demands, opportunities. Placement at a public agency, nonprofit organization, or private firm. Participation requires application to the internship advisor in preceding semester.

0101	Allen Eney	Seats (Total: 25)
	Contact instructor or department for details.	

GEOG385H **Internship in Geography II**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GEOG211, GEOG306, GEOG212, and GEOG201; and must have completed a Junior (Professional) English course. Restriction: Must be in Geography program.

Supervised field training to provide career experience. Introduction to professional-level activities, demands, opportunities. Placement at a public agency, nonprofit organization, or private firm. Participation requires application to the internship advisor in preceding semester.

0101	Allen Eney	Seats (Total: 10)
	Contact instructor or department for details.	

GEOG398 **Special Topics in Geography**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

An introductory course dealing with special topics in geography.

Contact department for information to register for this course.

GEOG398H **Special Topics in Geography**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

An introductory course dealing with special topics in geography.

0101	Instructor: TBA	Seats (Total: 1)
	Contact instructor or department for details.	

GEOG417 **Land Cover Characterization Using Multi-Spectral Remotely Sensed Data Sets**

Credits: 3

Grading Method: Regular

Prerequisite: Permission of BSOS-Geography department. Or GEOG372; and GEOG472; and GEOG306. Also offered as: GEOG617. Credit only granted for: GEOG498R; GEOG788R; GEOG417; GEOG617. Formerly: GEOG498R.

Students will be introduced to the image processing steps required for characterizing land cover extent and change. Key components of land cover characterization, including image interpretation, algorithm implementation, feature space selection, thematic output definition, and scripting will be discussed and implemented.

0101	Matthew Hansen	Seats (Total: 25)	
	TuTh 2:00pm - 3:15pm	LEF 1158	
	W 12:00pm - 2:00pm	LEF 1138	Lab

GEOG418 **Field and Laboratory Techniques in Environmental Science**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Lecture and laboratory learning each week. A variable credit course tha introduces field and laboratory analyses in environmental science. Individual learning contract are developed with instructor.

Lecture and laboratory learning each week. A variable credit course that introduces field and laboratory analyses in environmental science. Individual learning contract are developed with instructor. Students must pay a $300.00 lab fee.

0101	Ralph Dubayah	Seats (Total: 25)
	Contact instructor or department for details.	

GEOG421 **Changing Geographies of China**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Permission of BSOS-Geography department. Or GEOG202; and GEOG201; and (GEOG435, GEOG333, or GEOG332). Recommended: GEOG130; or GEOG140. Credit only granted for: GEOG328B or GEOG421. Formerly: GEOG328B.

Covers physical geography, history, and economic and political systems of the world's most populous country. The major focus will be on geographical issues in China's contemporary development: agriculture, population, urbanization, resource and energy, and environment.

0101	Shunlin Liang	Seats (Total: 24)
	TuTh 2:00pm - 3:15pm	LEF 1171

GEOG423 **Latin America**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Permission of BSOS-Geography department. Or GEOG201 and GEOG202; and (GEOG332, GEOG435, or GEOG333). Recommended: GEOG130 and GEOG110. Credit only granted for: GEOG313 or GEOG423. Formerly: GEOG313.

A geography of Latin America and the Caribbean in the contemporary world: political and cultural regions, population and natural resource distribution, economic and social development, poverty, crime, urbanization, migration trends, and natural disasters.

0101	Ronald Luna	Seats (Total: 25)
	TuTh 11:00am - 12:15pm	LEF 1158

GEOG431 **Culture and Natural Resource Management**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: GEOG421 or GEOG431. Formerly: GEOG421.

Basic issues concerning the natural history of humans from the perspective of the geographer. Basic components of selected behavioral and natural systems, their evolution and adaptation, and survival strategies.

0101	Kuishuang Feng	Seats (Total: 25)
	TuTh 11:00am - 12:15pm	LEF 1201

GEOG432 **Spatial Econometrics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Permission of BSOS-Geography department. Or GEOG201; and GEOG202; and GEOG306; and GEOG332. Also offered as: GEOG732. Credit only granted for: GEOG498E, GEOG432, GEOG788E, GEOG732. Formerly: GEOG498E.

An introduction to modern econometric techniques in general and spatial econometrics in particular, using the popular open source statistical computer language R. A focus on using statistical computing to produce analytical reports for real-world applications, research papers, and dissertations.

0101	Laixiang Sun	Seats (Total: 24)
	Tu 3:30pm - 6:00pm	LEF 1171

GEOG442 Biogeography and Environmental Change

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GEOG301. And GEOG201 and GEOG211; or permission of BSOS-Geography department. Also offered as: GEOG642. Credit only granted for: GEOG642, GEOG442, GEOG447, or GEOG484. Formerly: GEOG447.

Biogeographical topics of global significance, including a consideration of measurement techniques, and both descriptive and mechanistic modeling. Topics may include: scale in biogeography, biodiversity, carbon geography, climate and vegetation, interannual variability in the biosphere, land cover, global biospheric responses to climate change, NASA's Mission to Planet Earth and Earth Observation System. The class focuses on both natural and athropogenic controls, impacts of biography on climate and ecosystem services and different methods in biogeography.

0101	George Hurtt	Seats (Total: 30)
	TuTh 12:30pm - 1:45pm	LEF 1158

GEOG475 Computer Cartography

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GEOG373 and GEOG306. Credit only granted for: GEOG471 or GEOG475. Formerly: GEOG471.

Advanced skills of computer mapping using more sophisticated software packages. Map projection evaluation and selection, coordinate system conversion, techniques of quantitative thematic mapping, map design and generalization, hypermedia and animated cartography. Emphasis on designing and making cartographically sound sophisticated thematic maps.

Students must pay a $40.00 laboratory materials fee.

0101	Kathleen Stewart MW 3:00pm - 3:50pm F 11:00am - 1:00pm	Seats (Total: 25) LEF 1158 LEF 1138	 Lab
0102	Kathleen Stewart MW 3:00pm - 3:50pm F 1:00pm - 3:00pm	Seats (Total: 25) LEF 1158 LEF 1138	 Lab
	Restriction: Open to GEOG, GIS, & ENSP-Coastal, Land Use, Global majors only.		

GEOG476 **Object-Oriented Computer Programming for GIS**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GEOG373 and GEOG376; or permission of BSOS-Geography department. And must have completed MATH220; or must have completed or be concurrently enrolled in MATH120, MATH130, or MATH140. Restriction: Must be in Geography program; or must be in GIS minor. Credit only granted for: GEOG498G or GEOG476. Formerly: GEOG498G.

Expands on conceptual and practical aspects of programming for geographic applications. The main focus of this course is to provide students more advanced programming in object oriented programming languages (i.e. Python). In addition, students will develop a proficiency in applying these advanced programming principles to manipulating spatial data sources within the Geographic Information Systems (GIS).

Students must pay a $40.00 laboratory materials fee.

0101	Chengquan Huang MW 9:00am - 9:50am W 10:00am - 12:00pm	Seats (Total: 25) LEF 1220 LEF 1138	 Lab
	Restriction: Open to GEOG, GIS, & ENSP-Coastal, Land Use, Global majors only; or must be a GIS minor.		

GEOG498 **Topical Investigations**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Independent study under individual guidance.

Contact department for information to register for this course.

GEOG498H **Topical Investigations**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Independent study under individual guidance.

Contact department for information to register for this course.

GEOG601 **The Nature and Practice of Science**

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Permission of BSOS-Geography department. Credit only granted for: GEOG601 or GEOG788N. Formerly: GEOG788N.

Introduces students to the nature and practice of science in physical and human geography, including practical methods for research productivity, professional, societal and ethical obligations of scientists, the philosophy of science, and the scientific literature. Students will prepare and critically evaluate research proposals.

0101	Tatiana Loboda	Seats (Total: 24)
	M 3:00pm - 5:30pm	LEF 1171

GEOG603 **Masters Research Tutorial**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: GEOG600. Restriction: Permission of BSOS-Geography department. Credit only granted for: GEOG603 or GEOG610. Formerly: GEOG610.

Development of Masters scholarly paper topic, critical literature review, formulation of geographical approach to research methodology. Individual meetings with faculty. Comprehensive exam before the end of the semester.

Contact department for information to register for this course.

GEOG608 **Comprehensive Portfolio Assessment Summary**

Credits: 1-3 Grading Method: Sat-Fail

Evaluation of a PhD student's portfolio.

Contact department for information to register for this course.

GEOG617 **Land Cover Characterization Using Multi-Spectral Remotely Sensed Data Sets**

Credits: 3 Grading Method: Regular

Prerequisite: Permission of BSOS-Geography department. Or GEOG372; and GEOG472; and GEOG306. Also offered as: GEOG417. Credit only granted for: GEOG498R; GEOG788R; GEOG417; GEOG617. Formerly: GEOG788R.

Students will be introduced to the image processing steps required for characterizing land cover extent and change. Key components of land cover characterization, including image interpretation, algorithm implementation, feature space selection, thematic output definition, and scripting will be discussed and implemented.

0101	Matthew Hansen	Seats (Total: 25)	
	TuTh 2:00pm - 3:15pm	LEF 1158	
	W 12:00pm - 2:00pm	LEF 1138	Lab

GEOG642 **Biogeography and Environmental Change**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of BSOS-Geography department. Also offered as: GEOG442. Credit only granted for: GEOG788C, GEOG642, or GEOG442. Formerly: GEOG788C.

Biogeographical topics of global significance, including a consideration of measurement techniques, and both descriptive and mechanistic modeling. Topics may include: scale in biogeography, biodiversity, carbon geography, climate and vegetation, interannual variability in the biosphere, land cover, global biospheric responses to climate change, NASA's Mission to Planet Earth and Earth Observation System. The class focuses on both natural and athropogenic controls, impacts of biography on climate and ecosystem services and different methods in biogeography.

0101	George Hurtt	Seats (Total: 10)	
	TuTh 12:30pm - 1:45pm	LEF 1158	

GEOG650 **MOBILE GIS**

Credits: 3 Grading Method: Regular

Prerequisite: GEOG657. Restriction: Must be in M.Prof.Studies: Geospatial Information Sciences (Master's) program; or must be in Graduate Certificate: Professional Studies-Geospatial Information Sciences.

This course covers how to create, test, and publish mobile GIS applications that work across multiple platforms (Android, iOS, and Black Berry Tablet OS) and adapt to a smartphone or tablet display.

Contact department for information to register for this course.

GEOG652 **Digital Image Processing and Analysis**

Credits: 3 Grading Method: Regular

Prerequisite: GEOG579 or GEOG506; or students who have taken courses with comparable content may contact the department. Restriction: Must be in M.Prof.Studies: Geospatial Information Sciences (Master's) program; or must be in the Geospatial Information Sciences (Graduate Certificate) program.

Digital image processing and analysis applied to satellite and aircraft land remote sensing data. Consideration is given to preprocessing steps including calibration and geo registration. Analysis methods include digital image exploration, feature extraction thematic classification, change detection, and biophysical characterization. One or more application examples may be reviewed.

Contact department for information to register for this course.

GEOG653 **Spatial Analysis**

Credits: 3 Grading Method: Regular

Prerequisite: GEOG579 or GEOG506; or students who have taken courses with comparable content may contact the department. Restriction: Must be in M.Prof.Studies: Geospatial Information Sciences (Master's) program; or must be in the Geospatial Information Sciences (Graduate Certificate) program.

Methods of spatial analysis including measuring aspects of geometric features and identifying spatial patterns of geospatial objects that are represented as point, line, network, areal data, and 3-D surfaces.

Students must pay a $40.00 lab fee.

Contact department for information to register for this course.

GEOG654 **GIS and Spatial Modeling**

Credits: 3 Grading Method: Regular

Prerequisite: GEOG653. Restriction: Must be in M.Prof.Studies: Geospatial Information Sciences (Master's) program; or must be in Graduate Certificate: Professional Studies-Geospatial Information Sciences.

Provide foundations and understanding on various issues related to modeling and simulation in GIS context. It will addresses the concepts, tools, and techniques of GIS modeling, and presents modeling concepts and theory as well as provides opportunities for hands-on model design, construction, and application. The focus will be on raster-based modeling. This course is also application-orientated, particularly in these fields such as terrain modeling, LULC modeling, hydrological modeling, suitability modeling, etc.

Students must pay a $40.00 lab fee.

Contact department for information to register for this course.

GEOG656 **Programming and Scripting for GIS**

Credits: 3 Grading Method: Regular

Prerequisite: GEOG653. Restriction: Must be in M.Prof.Studies: Geospatial Information Sciences (Master's) program; or must be in Graduate Certificate: Professional Studies-Geospatial Information Sciences.

An introduction to programming and scripting for intermediate GIS users. The fundamental concepts of computer programming will be introduced within the Geoprocessing framework in ArcGIS primarily using Python. Basic concepts of object-oriented programming and scripting will be presented. Students will develop skills in programming techniques to explore, manipulate and model spatial data using the Geoprocessor methods.

Contact department for information to register for this course.

GEOG661 **Fundamentals of Geospatial Intelligence**

Credits: 3 Grading Method: Regular

Geospatial Intelligence (GEOINT) is the collection, analysis, visualization and dissemination of geospatial information to support decision-making. This course introduces the fundamental knowledge required to become a successful GEOINT practitioner, including the history of the GEOINT discipline, the intelligence applications of remote sensing and Geographic Information Systems (GIS) technologies, and how GEOINT products are used to support national security and humanitarian missions. Upon completion of this course you will understand the roles that technology, policy, doctrine, government, and industry play in shaping the Geospatial Intelligence discipline, and develop the technical knowledge and domain expertise to create basic GEOINT products that provide context for decision makers.

GI01	Micah Brachman **Meets August 27, 2018 - November 16, 2018** M 5:30pm - 8:00pm Tu 5:30pm - 8:00pm	Seats (Total: 10) LEF 1201 LEF 1138	 Lab
GI02	Micah Brachman **Meets August 27, 2018 - November 16, 2018** M 5:30pm - 8:00pm Tu 5:30pm - 8:00pm	Seats (Total: 10) LEF 1201 LEF 1138	 Lab
GI03	Micah Brachman **Meets August 27, 2018 - November 16, 2018** M 5:30pm - 8:00pm Tu 5:30pm - 8:00pm	Seats (Total: 5) LEF 1201 LEF 1138	 Lab

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GEOG662 **Advances in GIS and Remote Sensing**

Credits: 3 Grading Method: Regular, Audit

Restriction: Students taking the course must be familiar with data structures, basic GIS and RS concepts, and demonstrate basic understanding of using GIS and RS software. And must be enrolled in Geographical Sciences MPS or graduate certificate program; or permission of BSOS-Geography department.

Focuses on state-of-the-art advances in geographic information science and remote sensing as they support geospatial intelligence. Focus on synergies between GIS and remote sensing in informatics, computer science, and spatial engineering, and their application to problem domains in human systems, physical systems, and cyberspace. Advances in GIS presents recent advances regarding fundamental issues of geo-spatial information science (space and time, spatial analysis, uncertainty modeling and geo-visualization), and new scientific and technological research initiatives for geo-spatial information science (such as spatial data mining, mobile data modeling, and location-based services). Advances in remote sensing will provide opportunity to understand and work with latest developments in the Remote Sensing datasets. The curriculum covers wide range of remote sensing data interpretation and their processing techniques.

GI01	Ruibo Han	Seats (Total: 10)	
	Meets August 27, 2018 - November 16, 2018		
	W 5:30pm - 8:00pm	LEF 1106	
	Th 5:30pm - 8:00pm	LEF 1106	Lab

GEOG672 Biophysics of Optical Remote Sensing

Credits: 3 Grading Method: Regular, Audit

Prerequisite: GEOG472; or students who have taken courses with comparable content may contact the department; or permission of BSOS-Geography department.

Biophysical principles, phenomena and processes underlying multispectra remote sensing in the optical portion of the EM spectrum. Includes computer-based exercises that explore the biophysical basis of land patterns and dynamics observed in remote sensing data.

0101	Shunlin Liang	Seats (Total: 25)
	M 12:00pm - 2:30pm	LEF 1158

GEOG686 Mobile GIS and Geocomputing

Credits: 3 Grading Method: Regular

Prerequisite: Permission of BSOS-Geography department; or must be enrolled in Geographical Sciences MPS or graduate certificate program. Recommended: Students taking the course must be familiar with data structures, basic GIS concepts, and demonstrate basic understanding of object-oriented programming under GIS environment. Credit only granted for: GEOG477, GEOG498V, GEOG788V or GEOG777. Additional information: Tablets that run android and iOS will be loaned to registered students at no cost.

An introduction to mobile GIS, to the programming concepts underlying mobile GIS development, and to the design and implementation of a mobile GIS application. Covers how to develop, test, and publish mobile GIS native apps working across two mobile platforms: Android and iOS. Leverages the capabilities of JavaScript, Swift, Google maps, ArcGIS Server and runtime SDK to developing and publishing mobile GIS apps.

GI01	Ruibo Han	Seats (Total: 10)	
	Meets August 27, 2018 - November 16, 2018		
	M 5:30pm - 8:00pm	LEF 1106	
	Tu 5:30pm - 8:00pm	LEF 1106	Lab

GEOG732 **Spatial Econometrics**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of BSOS-Geography department. Or GEOG201; and GEOG306; and GEOG202; and GEOG332. Also offered as: GEOG432. Credit only granted for: GEOG498E, GEOG432, GEOG788E, GEOG732. Formerly: GEOG498E, GEOG788E.

An introduction to modern econometric techniques in general and spatial econometrics in particular, using the popular open source statistical computer language R. A focus on using statistical computing to produce analytical reports for real-world applications, research papers, and dissertations.

0101	Laixiang Sun	Seats (Total: 24)
	Tu 3:30pm - 6:00pm	LEF 1171

GEOG788 **Selected Topics in Geography**

(Perm req)

Credits: 1-3 Grading Method: Regular

Readings and discussion on selected topics in the field of geography.

Repeatable to 6 credits if content differs.

Contact department for information to register for this course.

GEOG788G **Selected Topics in Geography; Object-Oriented Computer Programming for GIS**

Credits: 3

Grading Method: Regular, Audit, Sat-Fail

Readings and discussion on selected topics in the field of geography.

0101	Instructor: TBA	Seats (Total: 10)	
	MW 9:00am - 9:50am	LEF 1220	
	W 10:00am - 12:00pm	LEF 1138	Lab

GEOG788Z **Selected Topics in Geography; Topics in Data Visualization with Processing and Applications in R**

Credits: 3

Grading Method: Regular, Audit, Sat-Fail

Readings and discussion on selected topics in the field of geography.

0101	Giovanni Baiocchi	Seats (Total: 23)
	W 4:00pm - 6:30pm	LEF 1222

GEOG789 **Independent Readings**

(Perm req)

Credits: 1-3

Grading Method: Regular, Audit

Independent reading as arranged between a graduate faculty member and graduate student.

Repeatable to 6 credits if content differs.

Contact department for information to register for this course.

GEOG790 **Internship in Geography**

Credits: 3

Grading Method: Regular, Audit

Field experience in the student's specialty in a Federal, state, or local agency or private business. Research paper required.

Contact department for information to register for this course.

GEOG797 **Professional Project**

Credits: 3

Grading Method: Regular

Prerequisite: GEOG795; and must have completed or be concurrently enrolled in ENCE662. Restriction: Must be in M.Prof.Studies: Geospatial Information Sciences (Master's) program.

Data and materials can originate from an internship (internal or external) or from relevant work experience with current employer. Under direction of faculty advisor, students will prepare a project report containing explanation of the requirements for the work, technical account of the activities undertaken, including literature review, description of methods and approaches taken, a critical discussion of results, along with conclusions and recommendations developed from the project. Final project will consist of a full-fledged GIS application that is up and running and can be tested, providing potential employers with a portfolio demonstrating student's ability to manage and develop a GIS application in real world situations.

Contact department for information to register for this course.

GEOG798 **Selected Topics in Geography: Seminar Series; Departmental Seminar**

(Perm req)

Credits: 1 Grading Method: Regular, Audit

Readings and discussions on selected topics in the field of geography.

0101	Rachel Berndtson	Seats (Total: 50)
	Th 3:45pm - 5:15pm	LEF 1158

GEOG799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

GEOG898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

GEOG899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

GEOL Geology Fall 2018

GEOL100 **Physical Geology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSNL (if taken with GEOL110), DSNS

Credit only granted for: GEOL100 or GEOL120. Additional information: CORE Distributive Studies Physical Science Laboratory Course only when taken concurrently with GEOL 110.

A general survey of the rocks and minerals composing the earth, its surface features and the agents that form them, and the dynamic forces of plate tectonics.

0101	Tracey Centorbi MWF 1:00pm - 1:50pm	Seats (Total: 99) ATL 2324	
0201	Ricardo Arevalo TuTh 2:00pm - 3:15pm	Seats (Total: 99) JMP 3201	

GEOL104 **Dinosaurs: A Natural History**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: PS | General Education: DSNS

Dinosaurs, their evolution, and our understanding of their fossil record. Students will examine the geologic record and the tools used by paleontologists to determine: geologic ages and ancient environments; evolutionary history and extinctions; dinosaurian biology and behavior; and their survival as birds. Mechanisms of global change ranging from plate tectonics to asteroid impact will be discussed.

0101	Thomas Holtz MWF 10:00am - 10:50am	Seats (Total: 60) PLS 1130	

GEOL110 **Physical Geology Laboratory**

Credits: 1 | Grading Method: Regular, Pass-Fail

Prerequisite: Must have completed or be concurrently enrolled in GEOL120 or GEOL100. Additional information: CORE Distributive Studies Physical Science Laboratory Course only when taken concurrently with GEOL 100.

The basic materials and tools of physical geology stressing familiarization with rocks and minerals and the use of maps in geologic interpretations.

Students must pay a $50.00 laboratory materials fee.

0101	Tiange Xing, Jonathan Guandique, Alan Kaufman Th 12:00pm - 3:00pm	Seats (Total: 24) GEO 2106		Lab
0102	Jonathan Guandique, Alan Kaufman, Haley Talbot-Wendlandt M 12:00pm - 3:00pm	Seats (Total: 24) GEO 2106		Lab

0103	Tiange Xing, Jonathan Guandique, Alan Kaufman Tu 12:00pm - 3:00pm	Seats (Total: 24) GEO 2106	Lab
0104	Alan Kaufman, Ziqin Ni, Jonathan Guandique Tu 3:00pm - 6:00pm	Seats (Total: 24) GEO 2106	Lab
0106	Alan Kaufman, Jonathan Guandique W 9:00am - 12:00pm	Seats (Total: 24) GEO 2106	Lab
0107	Ziqin Ni, Jonathan Guandique, Alan Kaufman W 3:00pm - 6:00pm	Seats (Total: 24) GEO 2106	Lab
0109	Haley Talbot-Wendlandt, Alan Kaufman, Jonathan Guandique Tu 9:00am - 12:00pm	Seats (Total: 24) GEO 2106	Lab

GEOL120 **Environmental Geology**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: PS	General Education: DSNL (if taken with GEOL110), DSNS

Credit only granted for: GEOL100 or GEOL120.

A review of geologic factors underlying many environmental problems and the interactions between population and physical environment: geologic hazards, land-use planning, conservation, mineral resources, waste disposal, land reclamation, and the geologic aspects of health and disease. The course is aimed at lower division students in education and liberal arts, and should be useful to any student concerned with geologic perspectives of environmental problems.

0101	Tracey Centorbi TuTh 12:30pm - 1:45pm M 3:00pm - 3:50pm	Seats (Total: 20) EGR 0108 PLS 1172	Discussion
0102	Tracey Centorbi TuTh 12:30pm - 1:45pm M 4:00pm - 4:50pm	Seats (Total: 20) EGR 0108 PLS 1172	Discussion
0103	Tracey Centorbi TuTh 12:30pm - 1:45pm M 5:00pm - 5:50pm	Seats (Total: 20) EGR 0108 PLS 1172	Discussion

FC01	Tracey Centorbi TuTh 4:30pm - 5:45pm F 9:00am - 9:50am *Restricted to students in Freshmen Connection.*	Seats (Total: 20) PHY 0405 PLS 1111	Discussion
FC02	Tracey Centorbi TuTh 4:30pm - 5:45pm F 10:00am - 10:50am *Restricted to students in Freshmen Connection.*	Seats (Total: 20) PHY 0405 PLS 1111	Discussion

GEOL123 **Causes and Consequences of Global Change**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: PS	General Education: DSNS, SCIS

Also offered as: AOSC123. Credit only granted for: AOSC123, GEOG123, GEOL123, or METO123.

Study of the major components of Earth's climate system and climate change history. Discussion of 21st century climate change prediction, mitigation and adaptation efforts.

0101	Melissa Kenney MW 12:00pm - 12:50pm F 12:00pm - 12:50pm	Seats (Total: 32) ATL 2416 ATL 2416	Discussion

GEOL124 **Evolution of Life and Environment on Planet Earth**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: PS	General Education: DSNS, SCIS

An exploration of how life has shaped Earth's physical environments, both in the contemporary Earth and over the long course of Earth history. Topics range from evidence for the origin and diversification of life and its impact on Earth environments to the mind-set and methods of the scientists who interpret it, and what those methods tell us about future interactions between life and the environment, both on Earth and in the Solar System.

Restricted to students in Carillon Communities.

0101	Alan Kaufman TuTh 11:00am - 12:15pm W 3:00pm - 3:50pm	Seats (Total: 15) EGR 1108 PLS 1162	Discussion
0102	Alan Kaufman TuTh 11:00am - 12:15pm W 4:00pm - 4:50pm	Seats (Total: 15) EGR 1108 PLS 1162	Discussion

0103	Alan Kaufman TuTh 11:00am - 12:15pm W 5:00pm - 5:50pm	Seats (Total: 15) EGR 1108 PLS 1162	Discussion

GEOL200 **Earth's Fury: Earthquakes, Volcanoes, and Tsunami**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: PS | General Education: DSNS, SCIS

Earthquakes, volcanic eruptions, and tsunami frequently remind us of th dangers associated with living on a constantly changing planet. How do people prepare for these rare but dramatic events? Student will study the science behind earthquakes and volcanoes, how it guides monitoring, forecasting, prevention, and response, and the cultural and ethical aspects of these events.

0101	Vedran Lekic TuTh 9:30am - 10:45am W 3:00pm - 3:50pm	Seats (Total: 20) ASY 2203 PLS 1168	Discussion
0102	Vedran Lekic TuTh 9:30am - 10:45am W 4:00pm - 4:50pm	Seats (Total: 20) ASY 2203 PLS 1168	Discussion
0103	Vedran Lekic TuTh 9:30am - 10:45am W 5:00pm - 5:50pm	Seats (Total: 20) ASY 2203 PLS 1168	Discussion
0104	Vedran Lekic TuTh 9:30am - 10:45am W 3:00pm - 3:50pm	Seats (Total: 20) ASY 2203 PLS 1164	Discussion
0105	Vedran Lekic TuTh 9:30am - 10:45am W 4:00pm - 4:50pm	Seats (Total: 20) ASY 2203 PLS 1164	Discussion
0106	Vedran Lekic TuTh 9:30am - 10:45am W 5:00pm - 5:50pm	Seats (Total: 20) ASY 2203 PLS 1164	Discussion

GEOL212 **Planetary Geology**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: PS | General Education: DSNS

Credit only granted for: ASTR330 or GEOL212.

An examination of the geologic and geochemical processes at work in the solar system from the perspectives supplied by space age exploration of the planets and other solar system bodies.

0101	John Merck	Seats (Total: 24)	
	MWF 9:00am - 9:50am	PLS 1115	

GEOL331 **Principles of Paleontology**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GEOL102; or (BSCI207 or BSCI392); or permission of CMNS-Geology department. Restriction: Permission of instructor is required of non-degree seeking students. Also offered as: BSCI333. Credit only granted for: GEOL331 or BSCI333.

A review of the theory, principles, and applications of Paleontology. A systematic overview of the morphology, evolution, and relationships of the major fossil-producing taxa.

0101	John Merck, Thomas Holtz	Seats (Total: 20)	
	TuTh 9:30am - 10:45am	JMZ 1120	
	Th 2:00pm - 5:00pm	GEO 2107	Lab

GEOL342 **Sedimentation and Stratigraphy**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GEOL120 or GEOL100; and GEOL110; and GEOL322. And CHEM103; or (CHEM131 and CHEM132); or (CHEM135 and CHEM136). Restriction: Permission of instructor is required of non-degree-seeking students.

Description, origin, and distribution of sediments and sedimentary rocks. Two mandatory weekend field trips.

0101	Alan Kaufman	Seats (Total: 15)	
	MWF 1:00pm - 1:50pm	PLS 1172	
	Tu 3:30pm - 6:30pm	GEO 2107	Lab

GEOL351 **Statistics for Geoscientists**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH115. Restriction: Non-degree-seeking students require the permission of the instructor. Credit only granted for: BIOM301, BMGT230, CCJS200, ECON230, ECON321, EDMS451, GEOG306, GEOL351, GVPT422, INST314, JOUR405, PSYC200 or SOCY201. (These courses do not necessarily meet the same major requirements-check with your advisor to see which of these courses will count for your major).

Practical approach to basic statistics applied in the geosciences. Experimental design, elementary statistics and probability, sequence analysis, spatial analysis, linear regression, nonparametric statistics, bivariate, multivariate and principal components analysis of variance, hypothesis testing. Problem sets and participatory discussion of statistical applications in the current literature.

0101	Michael Evans	Seats (Total: 18)
	MW 10:00am - 10:50am F 10:00am - 10:50am	PLS 1121 JMP 1109

GEOL375 **Introduction to the Blue Ocean**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH140. Recommended: MATH141, PHYS161, or PHYS171. Restriction: Non-degree-seeking students require the permission of the instructor. Also offered as: AOSC375. Credit only granted for: AOSC375, GEOL375 or METO375.

Introduction to physical, chemical, and biological properties of the ocean. Role of the ocean in climate as a component of the Earth system. El Nino and the ocean, impact of global warming on the ocean and marine habitats including fisheries.

0101	Jose-Henrique Alves	Seats (Total: 23)
	TuTh 11:00am - 12:15pm	AJC 2119

GEOL393 **Geology Senior Thesis I: Proposal**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS141 and MATH141. And CHEM131 and CHEM132; or (CHEM135 and CHEM136). And must have completed at least two upper-level geology courses and be concurrently enrolled in a third. Restriction: Junior standing or higher; and must be in Geology program; and non-degree-seeking students require the permission of the instructor.

The first semester of the two-semester Geology Senior Thesis. Emphasis is on developing a plan for original research in the geosciences and presenting that plan both in writing and in public presentations that adhere to geosciences professional standards.

0101	Philip Piccoli	Seats (Total: 10)
	W 4:00pm - 6:00pm Contact instructor or department for details.	PLS 1111

GEOL394 **Geology Senior Thesis II: Research**

Credits: 3 Grading Method: Regular CORE: CS General Education: DSSP

Prerequisite: GEOL393; and must have completed at least three upper level GEOL courses. Restriction: Must be in Geology program; and junior standing or higher; and in addition, non-degree-seeking students require the permission of the department.

The second semester of the two-semester Geology Senior Thesis. Investigation of specific original research question in geosciences. Emphasis is on completion of original research proposed in GEOL393 and presentation of results both in writing and in public presentations that adhere to geosciences professional standards.

Contact department for information to register for this course.

GEOL423 **Optical Mineralogy**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GEOL100 or GEOL120; and GEOL110; and GEOL322. And CHEM131 and CHEM132; or (CHEM135 and CHEM136); or CHEM103. Restriction: Non-degree-seeking students require the permission of the instructor.

The optical behavior of crystals with emphasis on the theory and application of the petrographic microscope.

0101	Sarah Penniston-Dorland	Seats (Total: 17)	
	MWF 9:00am - 9:50am W 10:00am - 1:00pm	HBK 0109 GEO 2117	Lab

GEOL445 **High Temperature Geochemistry**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GEOL322, GEOL100, and MATH115. And CHEM131 and CHEM132; or (CHEM135 and CHEM136); or CHEM103. Restriction: Non-degree-seeking students require the permission of the instructor.

Review of chemical principles and their use in understanding processes of Earth, and solar system formation and differentiation. Topics include nucleosynthesis and cosmochemical abundances of elements, bonding and element partitioning, equilibrium thermodynamics and phase stabilities, radiogenic isotopes and geochronology, kinetics, and diffusion.

0101	Ricardo Arevalo	Seats (Total: 20)	
	TuTh 12:30pm - 1:45pm Th 8:00am - 11:00am	PLS 1172 WDS 1114	Lab

GEOL446 **Geophysics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS141, MATH141, and MATH140; and (GEOL100 or GEOL120). Restriction: Non-degree-seeking students require the permission of the instructor.

An introduction to modern geophysics. Topics include: global plate tectonics, plate motion, triple junctions, geomagnetism, earthquakes and faulting, reflection and refraction seismology, gravity and isostasy, heat flow and mantle dynamics, deep interior of the Earth, geophysical observations and measurements.

0101	Wenlu Zhu	Seats (Total: 23)	
	TuTh 11:00am - 12:15pm	PLS 1162	

GEOL447 **Observational Geophysics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH140 and MATH141; and (PHYS141, PHYS161, or PHYS171).

An introduction to practical signal processing, data analysis, and inverse theory in geophysics.

0101	Vedran Lekic	Seats (Total: 20)	
	TuTh 3:30pm - 4:45pm	PLS 1129	

GEOL451 **Groundwater**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GEOL110 and MATH140; and (GEOL120 or GEOL100); and (CHEM131 and CHEM132; or (CHEM135 and CHEM136); or CHEM103). Or permission of CMNS-Geology department. Restriction: Non-degree-seeking students require the permission of the instructor; and junior standing or higher.

An introduction to the basic geologic parameters associated with the hydrologic cycle. Problems in the accumulation, distribution, and movement of groundwater will be analyzed.

0101	Wenlu Zhu	Seats (Total: 42)
	TuTh 2:00pm - 3:15pm	AJC 2132

GEOL452 **Watershed and Wetland Hydrology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Permission of CMNS-Geology department. Restriction: Non-degree-seeking students require the permission of the instructor; and junior standing or higher.

Physical processes by which water moves in watershed and wetland systems. Topics include: precipitation, infiltration, flow in the unsaturated zone, streamflow generation processes, and groundwater flow.

0101	Karen Prestegaard	Seats (Total: 40)
	TuTh 3:30pm - 4:45pm	PLS 1130

GEOL453 **Ecosystem Restoration**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH120 or MATH140; or must have completed MATH220. And (CHEM131 or CHEM135); and (CHEM132 or CHEM136); and (GEOL100, GEOL120, or ENST200). Restriction: Junior standing or higher; and permission of instructor is required of non-degree-seeking students. Credit only granted for: GEOL453 or GEOL489L. Formerly: GEOL489L.

Overview of ecosystem functions across biomes/geologic settings, and considerations and tradeoffs in ecosystem restoration strategies. Specific case studies and discussions will be aimed at understanding how structure can influence biophysical and biogeochemical processes supporting ecosystems, and then describes how rates, timing, and location of physical, chemical, and ecosystem processes can be altered by different restoration strategies to enhance ecosystem services.

Also offered as MEES698E and GEOL789L.

0101	Sujay Kaushal	Seats (Total: 20)
	Tu 3:30pm - 6:30pm	BPS 1232

GEOL460 **Field Geophysics**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH140, MATH141, and GEOL446; and (PHYS141, PHYS161, or PHYS171). Restriction: Non-degree-seeking students require the permission of the instructor.

Students will become familiar with geophysical instrumentation used for both scientific and industrial applications. Students will be given an introduction to the use of geophysical instrumentation for data collection, processing, and analysis, design of field experiments for investigating field geophysical problems, and an introduction to the theory of instrument design and use. Instruments that will be covered include (but are not limited to): broadband seismometers, geophones, ground-penetrating radar, magnetotellurics, and Global Positioning Satellites.

0101	Nicholas Schmerr	Seats (Total: 15)
	M 10:00am - 1:50pm	CHE 1215

GEOL471 **Geochemical Methods of Analysis**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHEM131 and CHEM132; or (CHEM135 and CHEM136); or CHEM103. Restriction: Non-degree-seeking students require the permission of the instructor.

Principles and application of geochemical analysis as applied to a variety of geological problems. X-ray and optical spectroscopy, X-ray diffraction, atomic absorption, electron microprobe, and electron microscopy.

0101	William McDonough	Seats (Total: 20)
	M 1:30pm - 2:50pm	HBK 0109
	W 1:30pm - 2:50pm	HBK 0109

GEOL488 **Geology Colloquium**

Credits: 1 Grading Method: Sat-Fail

Contemporary research topics and issues in geosciences are explored through the weekly Geology departmental colloquium and discussion of its contents.

0101	Mong-Han Huang	Seats (Total: 30)
	F 3:00pm - 4:30pm	PLS 1130

GEOL499 **Special Problems in Geology**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Intensive study of a special geologic subject or technique selected after consultation with instructor. Intended to provide training or instruction not available in other courses which will aid the student's development in his or her field of major interest.

Prerequisites: GEOL100 or GEO120, GEOL110, GEOL102; or equivalent; and permission of department. In addition, non-degree-seeking students require the permission of the instructor. Intensive study of a special geologic subject or technique selected after consultation with instructor. Intended to provide training or instruction not available in other courses which will aid the student's development in his or her field of major interest.

Contact department for information to register for this course.

GEOL647 **Observational Geophysics**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MATH140, MATH141, and PHYS141; and (PHYS161 or PHYS171). Credit only granted for: GEOL789O or GEOL647. Formerly: GEOL789O.

Introduces graduate students to instrument design and performance, signal processing, data analysis and inverse theory in geophysics.

0101	Vedran Lekic	Seats (Total: 10)
	TuTh 3:30pm - 4:45pm	PLS 1129

GEOL650 **Isotope and Trace Element Geochemistry**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: GEOL443; or permission of CMNS-Geology department. Restriction: Non-degree-seeking students require the permission of the instructor.

Trace elements and isotopes in geology, including modern applications in geochronology and petrogenesis.

0101	Richard Walker	Seats (Total: 15)
	TuTh 8:00am - 9:15am	PLS 1168

GEOL651 **Statistics for Geoscientists**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MATH115; and non-degree-seeking students require the permission of the instructor. Credit only granted for: GEOL789V or GEOL651. Formerly: GEOL789V.

Practical approach to basic statistics applied in the geosciences. Experimental design, elementary statistics and probability, sequence analysis, spatial analysis, linear regression, nonparametric statistics, bivariate, multivariate and principal components analysis of variance, hypothesis testing. Problem sets and participatory discussion of statistical applications in the current literature.

0101	Michael Evans MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 9) PLS 1121 JMP 1109

GEOL652 **Advanced Watershed and Wetland Hydrology**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: GEOL452; or permission of CMNS-Geology department. Restriction: Non-degree-seeking students require the permission of the instructor.

Physical and chemical processes in watershed and wetland systems: with an emphasis on redox reactions.

0101	Karen Prestegaard TuTh 3:30pm - 4:45pm	Seats (Total: 10) PLS 1130

GEOL670 **Physical Oceanography**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of CMNS-Geology department. Restriction: Non-degree-seeking students require the permission of the instructor. Also offered as: AOSC420, AOSC670. Credit only granted for: GEOL670, AOSC670 or AOSC420.

Ocean observations. Water masses, sources of deep water. Mass, heat, an salt transport, geochemical tracers. Western boundary currents, maintenance of the termocline. Coastal and estuarine processes. Surface waves and tides. Ocean climate.

0101	Gennady Chepurin MW 3:15pm - 4:30pm	Seats (Total: 11) ATL 2416
AM01	Gennady Chepurin MW 3:15pm - 4:30pm	Seats (Total: 1) ATL 2416

GEOL671 **Analytical Methods in Mineralogy**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: CHEM471. Restriction: Non-degree-seeking students require the permission of the instructor.

An intensive study in the operation and application of instrumentation in mineralogical problems. Emphasis on designing and testing methods of analysis for use in the student's research problems in geology.

0101	William McDonough	Seats (Total: 20)
	M 1:30pm - 2:50pm	HBK 0109
	W 1:30pm - 2:50pm	HBK 0109

GEOL682 **Computational Geodynamics**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of CMNS-Geology department; or (MATH462, GEOL680, and MATH240). Recommended: Familiarity with MATLAB. Credit only granted for: GEOL682 or GEOL789M. Formerly: GEOL789M.

An introduction to the techniques used to model geodynamics processes. The focus is on understanding and applying techniques, not on proving their worth and programming. Students will learn about Finite Element, Boundary Elements, and Finite Differences methods. We will not explore these topics with the rigor expected by Applied Mathematics but focus instead on practical aspects and their application to geodynamics.

0101	Laurent Montesi	Seats (Total: 10)
	TuTh 12:30pm - 1:45pm	EGR 1110

GEOL688 **Geology Colloquium**

Credits: 1 Grading Method: Sat-Fail

Contemporary research topics and issues in geosciences are explored through the weekly Geology departmental colloquium and discussion of its contents.

0101	Mong-Han Huang	Seats (Total: 30)
	F 3:00pm - 4:30pm	PLS 1130

GEOL789E **Recent Advances in Geology; Active Tectonics**

Credits: 3 Grading Method: Regular, Audit

Recent advances in geology research.

0101	Mong-Han Huang	Seats (Total: 10)
	TuTh 2:00pm - 3:15pm	PLS 1164

GEOL789J **Recent Advances in Geology; Mantle Dynamics**

Credits: 3 Grading Method: Regular, Audit

Recent advances in geology research.

0101	Laurent Montesi	Seats (Total: 10)
	TuTh 9:30am - 10:45am	JMP 1202

GEOL789L **Recent Advances in Geology; Special Topics in Marine-Estuarine-Environmental Sciences: Principles and Practices of Ecosystem Restoration**

Credits: 3 Grading Method: Regular, Audit

Recent advances in geology research.

Also offered as MEES698E and GEOL453. Overview of critical ecosystem functions across biomes/geologic settings emphasizing tradeoffs in restoration designs. Case studies illuminate structure's influence over biophysical and biogeochemical processes supporting ecosystems; then show how properties of physical, chemical, and ecosystem processes can be altered by different restoration strategies, to optimize ecosystem services and habitat quality. Includesa semester research project.

0101	Sujay Kaushal	Seats (Total: 20)
	Tu 3:30pm - 6:30pm	BPS 1232

GEOL798 **Seminar in Geology**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Discussion of special topics in current literature in all phases of geology.

Contact department for information to register for this course.

GEOL799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

GEOL898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

GEOL899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

GERM Germanic Studies Fall 2018

GERM103 **Intensive Elementary German**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not have completed GERM102; and must not be a fluent/native speaker of German. Credit only granted for: GERM102 or GERM103.

Covers speaking, reading, writing, listening, and culture of German-speaking world.

0101	Marion Lindstrom MWF 11:00am - 11:50am Class time/details on ELMs	Seats (Total: 25) TWS 1321 ONLINE
0102	James Porter MWF 1:00pm - 1:50pm Class time/details on ELMs	Seats (Total: 25) HBK 0123 ONLINE

GERM148Y **Germanic Languages - Elementary I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Basic instruction in a Germanic language other than German; Yiddish and Swedish are offered regularly, Danish, Netherlandic, and Norwegian when demand is sufficient. Subtitle will reflect the language. May be repeated in a different language.

Also offered as JWST281. Credit only granted for JWST281 or GERM148Y.

0101	Adi Mahalel TuTh 12:30pm - 1:45pm	Seats (Total: 20) HBK 1108

GERM203 **Intensive Intermediate German**

Credits: 4 Grading Method: Regular, Audit CORE: HO

Prerequisite: GERM103; or must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not have completed GERM201; and must not have completed GERM202; and must not be a fluent/native speaker of German. Credit only granted for: GERM202 or GERM203.

Covers speaking, reading, writing, listening, and culture of German-speaking world.

0101	Matthew Kelly MWF 11:00am - 11:50am Class time/details on ELMs	Seats (Total: 25) JMZ 1224 ONLINE
0102	Matthew Kelly MWF 12:00pm - 12:50pm Class time/details on ELMs	Seats (Total: 25) JMZ 1224 ONLINE

GERM204 **German Grammar Review**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO

Prerequisite: GERM203; or Must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not be a fluent/native speaker of German.

An in-depth study and analysis of selected grammatical topics in a contextualized framework.

0101	Regina Ianozi MWF 10:00am - 10:50am	Seats (Total: 25) JMZ 0122

GERM269A **Special Topics in Study Abroad II; Elementary German I**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

GERM269B **Special Topics in Study Abroad II; Elementary German II**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

GERM301 **Conversation and Composition I: The German-Speaking World**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GERM204; or students who have taken courses with comparable content may contact the department.

Practice in contemporary spoken and written German. Systematic review of grammar, and exercises in composition. Emphasis on cultural contrasts in the German-speaking world.

0101	Martina Domnick	Seats (Total: 20)
	MWF 1:00pm - 1:50pm	JMZ 1103

GERM302 **Conversation and Composition II: Current Topics in German-Speaking Society**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GERM301; or students who have taken courses with comparable content may contact the department.

Further practice in contemporary spoken and written German. Contemporary social, political, and cultural themes.

0101	Regina Ianozi	Seats (Total: 20)
	MWF 11:00am - 11:50am	JMZ 2122

GERM319G **Selected Topics in Germanic Language Studies; Seminar in German Language**

Credits: 3

Grading Method: Regular

Contact department for information to register for this course.

GERM322 **Highlights of German Literature and Culture**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

General Education: DSHU

Prerequisite: GERM302; or students who have taken courses with comparable content may contact the department.

Selected literary masterworks, social and cultural issues, and historical events in German-speaking countries from the Enlightenment, Romanticism, Junges Deutschland, Realism, Naturalism and its counter currents, Expressionism to the present. Taught in German.

Taught in German. Also offered as GERM322H.

0101	Julie Koser	Seats (Total: 25)
	TuTh 11:00am - 12:15pm	SYM 0209

GERM322H **Highlights of German Literature and Culture**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU

Prerequisite: GERM302; or students who have taken courses with comparable content may contact the department.

Selected literary masterworks, social and cultural issues, and historical events in German-speaking countries from the Enlightenment, Romanticism, Junges Deutschland, Realism, Naturalism and its counter currents, Expressionism to the present. Taught in German.

Taught in German. Also offered as GERM322.

0101	Julie Koser	Seats (Total: 25)
	TuTh 11:00am - 12:15pm	SYM 0209

GERM331 **Kafka and Film: The Uncanny in Literature and Film**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Also offered as: FILM331. Credit only granted for: GERM331, FILM331, or HONR348K.

Analysis of major works by Franz Kafka (1883-1924), his affinity to the cinema and use of cinematic means and techniques (e.g. the gaze, flashback, parallel action, gesture and body language, etc.) in his writings, as well as examination of adaptations of Kafka narratives (e.g. the Orson Welles and David Jones adaptations of 'The Trial,' 1961, 1992) and other films that use Kafkaian themes (e.g. Steven Soderbergh's 'Kafka,' 1991).

Taught in English.

0101	Peter Beicken	Seats (Total: 25)
	TuTh 11:00am - 12:15pm	JMZ 3120

GERM369C **Special Topics in Study Abroad III; German Composition I**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

GERM369D **Special Topics in Study Abroad III; German Composition II**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

GERM369K **Special Topics in Study Abroad III; Introduction to German Literature**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

GERM369M **Special Topics in Study Abroad III; Europeans and the Middle East: War & Peace, Culture and Exchange, 1798-Present**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

GERM369P **Special Topics in Study Abroad III; Pop Culture: European-American Trends**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

GERM386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Prerequisite: Permission of ARHU-School of Languages, Literatures, and Cultures department. Restriction: Junior standing or higher.

Contact department for information to register for this course.

GERM389A **Topics in Germanic Culture; Green Germany: Poets, Nazis, and Environmentalists**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics in the cultures of the German, Germanic, Indo-European peoples and of their culturally related non-Indo-European neighbors. Taught in English.

This course will explore the roots of Green Germany, examining texts from the late 18th century to the present in an attempt to trace the cultural history of German conceptions of nature. Germany has long been a leader in green thinking and green practices, yet Germany's green identity is rife with contradictions. German history is marked by the intertwined rise of industry and environmentalism, of racist nationalism and ecological preservation. We will explore this history through novels, poems, operas, movies, and games to deepen our understanding of German culture while also raising questions about contemporary American environmental discourse. Taught in English.

0101	Edward Dawson	Seats (Total: 30)
	MWF 12:00pm - 12:50pm	JMZ 0205

GERM389F **Topics in Germanic Culture; Berlin: History, Memory, Literature**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics in the cultures of the German, Germanic, Indo-European peoples and of their culturally related non-Indo-European neighbors. Taught in English.

Contact department for information to register for this course.

GERM389G **Topics in Germanic Culture; German American Cultural Contrasts**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics in the cultures of the German, Germanic, Indo-European peoples and of their culturally related non-Indo-European neighbors. Taught in English.

Contact department for information to register for this course.

GERM397H **Honors Reading (Independent Study)**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Supervised reading to be taken normally only by students admitted into honors program.

Contact department for information to register for this course.

GERM399F **Selected Topics in Germanic Studies; The Human Condition and the Totalitarian Experience**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

GERM401 **Advanced Conversation**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GERM302; or students who have taken courses with comparable content may contact the department.

Development of fluency in spoken German to achieve advanced level.

0101	Peter Beicken	Seats (Total: 20)
	TuTh 2:00pm - 3:15pm	JMZ 2206

GERM411 **German for International Business I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Advanced skills in German for international business, including understanding and writing correspondence, reports, graphics, ads, etc., according to current German commercial style.

Contact department for information to register for this course.

GERM436 **The Usual Suspects: Criminals in German Literature and Film**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHU

Prerequisite: GERM320 or GERM322; or permission of instructor.

An examination of how historical, cultural and political discourses in German-speaking countries influence social norms and criteria for judging what is considered socially acceptable or "deviant". Texts and films span from the 18th to 21st centuries. Taught in German.

Also offered as GERM689J. Credit only granted for GERM436 or GERM689J.

0101	Julie Koser	Seats (Total: 20)
	Tu 4:30pm - 7:15pm	JMZ 3205

GERM439J **Selected Topics in German Literature; Introduction to the History of the German Language**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special study of an author, school, genre, or theme. Taught in German.

Contact department for information to register for this course.

GERM473 **Variation in Contemporary German Language**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DVUP

Prerequisite: GERM302; or permission of instructor. Also offered as: GERM673. Credit only granted for: GERM473, GERM489M, or GERM673. Formerly: GERM489M.

Examines the unique, multilingual society that is modern Germany, exploring issues such as regional varieties, gendered language, language reform (and resistance to it), public and media speech, the influence of American English on colloquial speech and in specific fields, and the problems of immigrant communities acquiring both dialect and standard German.

0101	Alene Moyer	Seats (Total: 20)
	W 4:30pm - 7:15pm	KEY 0117

GERM499 **Directed Study**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Contact department for information to register for this course.

GERM673 **Variation in Contemporary German**

Credits: 3 Grading Method: Regular, Audit

Also offered as: GERM473. Credit only granted for: GERM489L, GERM673, or GERM689L.

Examines the unique, multilingual society that is modern Germany, exploring issues such as regional varieties, gendered language, language reform (and resistance to it), public and media speech, the influence of American English on colloquial speech and in specific fields, and the problems of immigrant communities acquiring both dialect and standard German. This may count for the upper-division requirement of the German major.

0101	Alene Moyer	Seats (Total: 20)
	W 4:30pm - 7:15pm	KEY 0117

GERM689J **Special Topics - M.A. Level; The Usual Suspects: Criminals in German Literature and Film**

Credits: 3 Grading Method: Regular, Audit

M.A.-level study of a literary, linguistic or cultural topic in German or Germanic studies.

Also offered as GERM689J. Credit only granted for GERM436 or GERM689J.

0101	Julie Koser	Seats (Total: 20)
	Tu 4:30pm - 7:15pm	JMZ 3205

GERM798 **Master's Independent Study**

Credits: 1-3 Grading Method: Regular, Audit

Contact department for information to register for this course.

GERM799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

GERM888 **Doctoral Independent Study**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Contact department for information to register for this course.

GERM898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

GERM899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

GREK Greek Fall 2018

GREK101 **Elementary Ancient Greek I**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Restriction: A student who has had two units of Greek in high school may register for GREK101 for purposes of review but not for credit.

Study of basic grammar, development of reading facility, and introduction to Athenian life and culture in the fifth century B.C.

Classical and New Testament Greek.

0101	Gregory Bucher	Seats (Total: 20)
	MWF 10:00am - 10:50am	JMZ 3205
	M 9:00am - 9:50am	JMZ 3205

GREK111 **Elementary Modern Greek I**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Restriction: Must not be a native speaker of Greek. Credit only granted for: FOLA108G or GREK111. Formerly: FOLA108G.

An introduction to the language and culture of modern Greece. Students begin to acquire the basic tools of the language and to communicate, in simple everyday situations. This is the first of our two-semester sequence in Elementary Modern Greek and contributes to the fulfillment of the Global Engagement requirement of the College of Arts and Humanities.

0101	Polyvia Parara	Seats (Total: 20)
	MWF 12:00pm - 12:50pm	KEY 0119

GREK201 **Intermediate Ancient Greek**

Credits: 4

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GREK102; or students who have taken courses with comparable content may contact the department.

Advancing beyond the basic skills developed in GREK 101 and GREK 102; review of selected grammatical concepts; continuous reading of passages from Greek literature.

0101	Gregory Bucher	Seats (Total: 10)
	MWF 2:00pm - 2:50pm	MMH 1218
	M 1:00pm - 1:50pm	MMH 1218

GREK211 **Intermediate Modern Greek I**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GREK112; or permission of instructor. Credit only granted for: FOLA118G or GREK211. Formerly: FOLA118G.

A continuation of the study of basic structures and the development of fluency in functional, spoken and written communication. This is the first of our two-semester sequence in Intermediate Modern Greek and contributes to the fulfillment of the Global Engagement requirement of the College of Arts and Humanities.

0101	Polyvia Parara	Seats (Total: 14)
	MWF 10:00am - 10:50am	MMH 1218

GREK398 **Advanced Modern Greek**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Develops advanced communication skills in the modern Greek language: speaking, listening, reading, and writing.

0101	Polyvia Parara	Seats (Total: 10)
	MWF 11:00am - 11:50am	MMH 1218

GREK411 **Modern Greek Literature and History**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Students must have earned a grade of C- or better in a 300-level Modern Greek course. Restriction: Permission of instructor. Credit only granted for: GREK311 or GREK411. Formerly: GREK311.

Students will study historical and political events in Greece during the 19th and 20th centuries through the viewpoint of the man of letters. Poetry, prose, plays, and essays reflect national emancipation, social reconstruction, and political struggles. Readings and discussion are in Modern Greek.

0101	Polyvia Parara	Seats (Total: 5)
	MW 1:00pm - 2:15pm	MMH 1304

GREK488B **Greek Readings; Intermediate Ancient Greek**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The reading of one or more selected Greek authors. Reports.

0101	Gregory Bucher	Seats (Total: 5)
	MWF 2:00pm - 2:50pm	MMH 1218
	M 1:00pm - 1:50pm	MMH 1218

GREK488K **Greek Readings; Greek Historians**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The reading of one or more selected Greek authors. Reports.

0101	Jorge Bravo	Seats (Total: 7)
	W 5:00pm - 7:40pm	MMH 1218

GREK499 **Independent Study in Greek Language and Literature**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

GREK606 **Greek Historians**

Credits: 3 Grading Method: Regular, Audit

Survey of the Greek historians, concentrating on Herodotus and Thucydides, contrasting the two historians in the areas of subject, methods of research, composition, and achievement.

0101	Jorge Bravo	Seats (Total: 8)
	W 5:00pm - 7:40pm	MMH 1218

GREK699 **Independent Study in Greek Literature**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Contact department for information to register for this course.

GREK799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

GVPT Government and Politics Fall 2018

GVPT101 **Introduction to Political Science**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SB General Education: DSHS

A study of the basic principles and concepts of political science.

Contact department for information to register for this course.

GVPT105S **Introduction to Political Ethics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SB General Education: DSHS

Restriction: Must be in the College Park Scholars program; and must be in International Studies program or Public Leadership program.

An examination of major theories of political life and politics as they pertain to international politics, conflict, and culture. Emphasis will be given to theories of ethics and morality that pertain to international studies, such as human rights.

0101	James Glass MW 2:00pm - 2:50pm F 9:00am - 9:50am	Seats (Total: 25) TYD 0117 EDU 2102	 Discussion
0102	James Glass MW 2:00pm - 2:50pm F 10:00am - 10:50am	Seats (Total: 25) TYD 0117 EDU 2102	 Discussion
0103	James Glass MW 2:00pm - 2:50pm F 11:00am - 11:50am	Seats (Total: 25) TYD 0117 TYD 0101	 Discussion
0104	James Glass MW 2:00pm - 2:50pm F 12:00pm - 12:50pm	Seats (Total: 25) TYD 0117 TYD 0102	 Discussion

GVPT158A **Special Topics in Study Abroad I; The European Union**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

GVPT170 **American Government**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SB General Education: DSHS

A comprehensive study of national government in the United States.

0101	Neil Lund TuTh 11:00am - 11:50am F 9:00am - 9:50am	Seats (Total: 25) SKN 0200 TYD 0101	 Discussion

0102	Neil Lund TuTh 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 25) SKN 0200 TYD 0101	Discussion
0103	Neil Lund TuTh 11:00am - 11:50am F 1:00pm - 1:50pm	Seats (Total: 25) SKN 0200 TYD 2109	Discussion
0104	Neil Lund TuTh 11:00am - 11:50am F 9:00am - 9:50am	Seats (Total: 25) SKN 0200 TYD 1132	Discussion
0105	Neil Lund TuTh 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 25) SKN 0200 TYD 1132	Discussion
0106	Neil Lund TuTh 11:00am - 11:50am F 1:00pm - 1:50pm	Seats (Total: 25) SKN 0200 JMZ 0125	Discussion
0107	Neil Lund TuTh 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 25) SKN 0200 TYD 2109	Discussion
0108	Neil Lund TuTh 11:00am - 11:50am F 1:00pm - 1:50pm	Seats (Total: 25) SKN 0200 TYD 0101	Discussion
0109	Neil Lund TuTh 11:00am - 11:50am F 2:00pm - 2:50pm	Seats (Total: 25) SKN 0200 TYD 0101	Discussion
FC01	Ottawa Sanders MW 6:00pm - 7:15pm *Restricted to students in Freshman Connection.*	Seats (Total: 60) ASY 2309	

GVPT200 **International Political Relations**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS, DVUP

A study of the major factors underlying international relations, the causes of conflict and cooperation among international actors, the role of international institutions, the interactions of domestic and foreign policies, and major issues in security, economy and the environment.

0101	Todd Allee MW 10:00am - 10:50am F 9:00am - 9:50am	Seats (Total: 25) TYD 0130 WDS 0104	Discussion
0102	Todd Allee MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 25) TYD 0130 WDS 0104	Discussion
0103	Todd Allee MW 10:00am - 10:50am F 12:00pm - 12:50pm	Seats (Total: 25) TYD 0130 TYD 1132	Discussion
0104	Todd Allee MW 10:00am - 10:50am F 9:00am - 9:50am	Seats (Total: 25) TYD 0130 TYD 1108	Discussion
0105	Todd Allee MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 25) TYD 0130 TYD 1108	Discussion
0106	Todd Allee MW 10:00am - 10:50am F 12:00pm - 12:50pm	Seats (Total: 25) TYD 0130 SKN 1112	Discussion
0107	Todd Allee MW 10:00am - 10:50am F 9:00am - 9:50am	Seats (Total: 25) TYD 0130 TYD 2102	Discussion
0108	Todd Allee MW 10:00am - 10:50am F 11:00am - 11:50am	Seats (Total: 25) TYD 0130 TYD 1108	Discussion
0109	Todd Allee MW 10:00am - 10:50am F 12:00pm - 12:50pm	Seats (Total: 25) TYD 0130 TYD 1108	Discussion

FC01	Seungjun Kim TuTh 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 60) TYD 1101	

GVPT201 **Scope and Methods for Political Science Research**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

Credit only granted for: GVPT100 or GVPT201. Formerly: GVPT100.

An introduction to empirical research in political science.

0101	Johanna Birnir MW 1:00pm - 1:50pm F 9:00am - 9:50am	Seats (Total: 25) ASY 2203 TYD 0111	Discussion
0102	Johanna Birnir MW 1:00pm - 1:50pm F 10:00am - 10:50am	Seats (Total: 25) ASY 2203 TYD 0111	Discussion
0103	Johanna Birnir MW 1:00pm - 1:50pm F 1:00pm - 1:50pm	Seats (Total: 25) ASY 2203 TYD 1108	Discussion
0104	Johanna Birnir MW 1:00pm - 1:50pm F 9:00am - 9:50am	Seats (Total: 25) ASY 2203 TYD 1101	Discussion
0105	Johanna Birnir MW 1:00pm - 1:50pm F 10:00am - 10:50am	Seats (Total: 25) ASY 2203 TYD 1101	Discussion
0106	Johanna Birnir MW 1:00pm - 1:50pm F 1:00pm - 1:50pm	Seats (Total: 25) ASY 2203 SKN 1115	Discussion
0201	Johanna Birnir MW 10:00am - 10:50am F 9:00am - 9:50am	Seats (Total: 25) LEF 2166 TYD 1114	Discussion

0202	Johanna Birnir MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 25) LEF 2166 TYD 1114	Discussion
0203	Johanna Birnir MW 10:00am - 10:50am F 1:00pm - 1:50pm	Seats (Total: 25) LEF 2166 TYD 1118	Discussion

GVPT205S **Special Topics in International Ethics, Conflict, and Immigration**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS, DVUP

Prerequisite: GVPT105. Recommended: GVPT241. Restriction: Must be in College Park Scholars program; and must be in GVPT international Studies program.

An examination of issues in international ethics, conflict generated at the international level, and problems in immigration policy and law, including theories of rights and immigration, and ideological sources of international violence.

0101	Richard Boyd Tu 2:00pm - 3:15pm Th 2:00pm - 3:15pm	Seats (Total: 26) TWS 0310 TYD 1118	Discussion
0102	Richard Boyd Tu 2:00pm - 3:15pm Th 2:00pm - 3:15pm	Seats (Total: 26) TWS 0310 JMZ 1224	Discussion
0103	Richard Boyd Tu 2:00pm - 3:15pm Th 2:00pm - 3:15pm	Seats (Total: 26) TWS 0310 HBK 0105	Discussion

GVPT217 **Mock Trial**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Also offered as: MLAW217. Credit only granted for: MLAW217, GVPT217, or GVPT319A. Formerly: GVPT319A.

Experience the excitement and reward of arguing, and perhaps winning your client's case in court. Mock Trial is designed for students who are interested in learning practical techniques for shaping the evidence, using the law, and exploiting the courtroom to create a coherent and convincing case theory

Click here for course permission.

0101	William Mundy W 6:30pm - 9:15pm	Seats (Total: 30) TYD 1102	

GVPT221 **Introduction to Formal Theories of Political Behavior and Politics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GVPT170.

An introduction to the theories of rational choice including theories of negotiation and bargaining, elections and voting in democracies, community organizing and the contrast between the roles and performances of government and market.

0101	Piotr Swistak Th 2:00pm - 4:45pm	Seats (Total: 30) TYD 0101	

GVPT241 **The Study of Political Philosophy: Ancient and Modern**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Examines some of the salient continuities and breaks between the ancient and modern traditions in Western political philosophy.

0101	Sujith Kumar MW 2:00pm - 2:50pm F 9:00am - 9:50am	Seats (Total: 23) LEF 2205 LEF 1222	Discussion
0102	Sujith Kumar MW 2:00pm - 2:50pm F 10:00am - 10:50am	Seats (Total: 24) LEF 2205 LEF 1171	Discussion
0103	Sujith Kumar MW 2:00pm - 2:50pm F 9:00am - 9:50am	Seats (Total: 25) LEF 2205 KNI 1103	Discussion
0104	Sujith Kumar MW 2:00pm - 2:50pm F 10:00am - 10:50am	Seats (Total: 25) LEF 2205 KNI 1103	Discussion
0105	Sujith Kumar MW 2:00pm - 2:50pm F 11:00am - 11:50am	Seats (Total: 25) LEF 2205 TYD 1102	Discussion

0106	Sujith Kumar MW 2:00pm - 2:50pm F 1:00pm - 1:50pm	Seats (Total: 25) LEF 2205 TYD 1114	Discussion
0107	Sujith Kumar MW 2:00pm - 2:50pm F 11:00am - 11:50am	Seats (Total: 22) LEF 2205 LEF 1221	Discussion
0108	Sujith Kumar MW 2:00pm - 2:50pm F 1:00pm - 1:50pm	Seats (Total: 25) LEF 2205 TYD 0102	Discussion
FC01	Noa Balf TuTh 7:30pm - 8:45pm	Seats (Total: 40) TYD 1108	

GVPT258B **Introduction to Political Science Topics in Study Abroad; Enemy Within: Spies and Espionage in the Cold War**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The study of topics in political science taken as part of an approve study abroad program.

Contact department for information to register for this course.

GVPT258C **Introduction to Political Science Topics in Study Abroad; Government and Politics in China**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The study of topics in political science taken as part of an approve study abroad program.

Contact department for information to register for this course.

GVPT258D **Introduction to Political Science Topics in Study Abroad; Danish Politics and Society**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The study of topics in political science taken as part of an approve study abroad program.

Contact department for information to register for this course.

GVPT258E **Introduction to Political Science Topics in Study Abroad; Government and Politics in Spain**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The study of topics in political science taken as part of an approve study abroad program.

Contact department for information to register for this course.

GVPT258F **Introduction to Political Science Topics in Study Abroad; European Union Law and Economic Integration**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The study of topics in political science taken as part of an approve study abroad program.

Contact department for information to register for this course.

GVPT258I **Introduction to Political Science Topics in Study Abroad; Government and Politics in Italy and Europe**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The study of topics in political science taken as part of an approve study abroad program.

Contact department for information to register for this course.

GVPT258N **Introduction to Political Science Topics in Study Abroad; Arms Control in the Nuclear Realm**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The study of topics in political science taken as part of an approve study abroad program.

Contact department for information to register for this course.

GVPT258P **Introduction to Political Science Topics in Study Abroad; Sustainable Development: Environmental, Political and Social Issues**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The study of topics in political science taken as part of an approve study abroad program.

Contact department for information to register for this course.

GVPT258R **Introduction to Political Science Topics in Study Abroad; Peace and Conflict Honors Seminar II: Regional Conflicts**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The study of topics in political science taken as part of an approve study abroad program.

Contact department for information to register for this course.

GVPT258T **Introduction to Political Science Topics in Study Abroad; Terrorism and Political Violence**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The study of topics in political science taken as part of an approve study abroad program.

Contact department for information to register for this course.

GVPT273 **Introduction to Environmental Politics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

An overview of modern environmental philosophy, politics, and policy, exploring environmental politics in the US by way of comparison with other developed and developing countries.

FC01	Matthew Regan MW 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 40) HBK 0109	

GVPT280 **The Study of Comparative Politics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GVPT201.

An introduction to the comparative study of politics and governance, including the analytical concepts for studies of politics and a survey of the major types of regimes, including democratic and authoritarian/communist regimes.

0101	Catherine Aiken MW 10:00am - 10:50am F 9:00am - 9:50am	Seats (Total: 20) LEF 2205 HBK 1112	Discussion
0102	Catherine Aiken MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 20) LEF 2205 HBK 1112	Discussion
0103	Catherine Aiken MW 10:00am - 10:50am F 1:00pm - 1:50pm	Seats (Total: 20) LEF 2205 LEF 1171	Discussion
0104	Catherine Aiken MW 10:00am - 10:50am F 9:00am - 9:50am	Seats (Total: 20) LEF 2205 JMZ 2206	Discussion

0105	Catherine Aiken MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 20) LEF 2205 JMZ 2207	Discussion
0106	Catherine Aiken MW 10:00am - 10:50am F 1:00pm - 1:50pm	Seats (Total: 20) LEF 2205 JMZ 3203	Discussion

GVPT289A **Special Topics in Government and Politics; Appetite for Change: Politics and the Globalization of Food**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, SCIS

Substantive issues of and theoretical approaches to political phenomenon. Topics and credit vary.

0101	Virginia Haufler MW 2:00pm - 2:50pm F 9:00am - 9:50am	Seats (Total: 20) ESJ 2204 TYD 1118	Discussion
0102	Virginia Haufler MW 2:00pm - 2:50pm F 10:00am - 10:50am	Seats (Total: 20) ESJ 2204 TYD 2111	Discussion
0103	Virginia Haufler MW 2:00pm - 2:50pm F 1:00pm - 1:50pm	Seats (Total: 20) ESJ 2204 LEF 1222	Discussion
0104	Virginia Haufler MW 2:00pm - 2:50pm F 9:00am - 9:50am	Seats (Total: 20) ESJ 2204 TYD 0102	Discussion
0105	Virginia Haufler MW 2:00pm - 2:50pm F 10:00am - 10:50am	Seats (Total: 20) ESJ 2204 TYD 2106	Discussion
0106	Virginia Haufler MW 2:00pm - 2:50pm F 1:00pm - 1:50pm	Seats (Total: 20) ESJ 2204 TYD 1132	Discussion

GVPT289B **Special Topics in Government and Politics; Globalization**

Credits: 1-6

Grading Method: Regular, Pass-Fail, Audit

Substantive issues of and theoretical approaches to political phenomenon. Topics and credit vary.

Contact department for information to register for this course.

GVPT289J **Special Topics in Government and Politics; Uncertain Partners: US and China in a Changing World**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

General Education: DSHS, SCIS

Substantive issues of and theoretical approaches to political phenomenon. Topics and credit vary.

0101	Scott Kastner MW 1:00pm - 1:50pm F 9:00am - 9:50am	Seats (Total: 20) SHM 2102 EDU 1121	Discussion
0102	Scott Kastner MW 1:00pm - 1:50pm F 10:00am - 10:50am	Seats (Total: 20) SHM 2102 EDU 1121	Discussion
0103	Scott Kastner MW 1:00pm - 1:50pm F 1:00pm - 1:50pm	Seats (Total: 20) SHM 2102 TYD 2106	Discussion
0104	Scott Kastner MW 1:00pm - 1:50pm F 9:00am - 9:50am	Seats (Total: 20) SHM 2102 SQH 1117	Discussion
0105	Scott Kastner MW 1:00pm - 1:50pm F 10:00am - 10:50am	Seats (Total: 20) SHM 2102 SQH 1117	Discussion
0106	Scott Kastner MW 1:00pm - 1:50pm F 1:00pm - 1:50pm	Seats (Total: 20) SHM 2102 TYD 2110	Discussion

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GVPT289X **Special Topics in Government and Politics; Introduction to European Union**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Substantive issues of and theoretical approaches to political phenomenon. Topics and credit vary.

Contact department for information to register for this course.

GVPT306 **Global Environmental Politics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GVPT200.

Focus on three processes of international environmental policy development- identifying problems, negotiating solutions, and implementing agreements- through a range of case studies, including global climate change.

0101	Jennifer Hadden TuTh 11:00am - 12:15pm	Seats (Total: 30) TYD 0101
0201	Jennifer Hadden TuTh 2:00pm - 3:15pm *Restriction: Must be in Government & Politics program or Government & Politics: International Relations program.*	Seats (Total: 30) KEY 0100

GVPT309H **Topics in International Relations; British Politics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The study of topics in international relations.

Contact department for information to register for this course.

GVPT309L **Topics in International Relations; Israel & Arab Spring**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The study of topics in international relations.

Also offered as ISRL329E. Credit granted for ISRL329E or GVPT309L. This course will explore and analyze the political, diplomatic, and strategic effects of the Arab Spring and its continuing after effects on the State of Israel, using that as a lens to study the contemporary Middle East. It starts with a preliminary study of Israel's foreign policy and then examines the effects of the Arab Spring on its domestic politics: relations with other regional actors, the Palestinians, and the United States; and Israel's strategy towards non-state actors such as Hamas, Hezbollah and ISIS.

0101	Moran Stern W 4:00pm - 6:30pm	Seats (Total: 40) HJP 2242

GVPT319C **Topics in Social Advocacy; Careers in the Social Sector**

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

Reading, research and discussion of variety of topics related to social advocacy.

An overview of careers in the social sector ecosystem. We will discuss common jobs and career tracks in nonprofits, foundations, impact investing, social entrepreneurship, social sector consulting, corporate social responsibility, think tanks, and academia.

0101	Sarah Wolek	Seats (Total: 30)
	M 11:00am - 11:50am	TLF 1101

GVPT319D **Topics in Social Advocacy; Careers in Government and Politics**

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

Reading, research and discussion of variety of topics related to social advocacy.

An overview of careers in government and politics. We will discuss human resource rules and processes specific to the government along with career tracks in the federal government (executive, legislative, and judicial), state & local government, running for office and working on campaigns and lobbying.

0101	Sarah Wolek	Seats (Total: 30)
	M 12:00pm - 12:50pm	TLF 1101

GVPT319L **Topics in Social Advocacy; Legal Advocacy**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Reading, research and discussion of variety of topics related to social advocacy.

SG91	James Trusty	Seats (Total: 30)
	Tu 6:30pm - 9:00pm	Location: TBA
	Restricted to CCJS student at Shady Grove.	

GVPT349H **Topics in Political Philosophy; Introduction to Political Ethics**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

The study of topics in political philosophy.

Restricted to Honors students.

0101	James Glass W 3:30pm - 6:15pm	Seats (Total: 15) TYD 0102	

GVPT354 **International Development and Conflict Management**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Enrollment is restricted to students in the Minor in International Development and Conflict Management; and permission of BSOS-Government & Politics department; and sophomore standing or higher. Additional information: Students are expected to take the course during the Fall semester after admission to the program.

Serves as the gateway course for the Minor in International Development and Conflict Management. Provides an introductory foundation in the theory and practice of international development and conflict management. Introduces the structures, key players, intersections, and main trends in the evolution of the fields. Explores causal factors that drive economic growth, poverty, inequality, and conflict, as well as the resources, methods, and tools available to track and address these issues.

0101	Stacy Kosko W 2:00pm - 3:40pm F 9:00am - 9:50am	Seats (Total: 25) JMZ 0220 SQH 1119	 Discussion
0102	Stacy Kosko W 2:00pm - 3:40pm F 10:00am - 10:50am	Seats (Total: 25) JMZ 0220 SQH 1119	 Discussion
0103	Stacy Kosko W 2:00pm - 3:40pm F 12:00pm - 12:50pm	Seats (Total: 25) JMZ 0220 TYD 0101	 Discussion

GVPT356 **Capstone in International Development**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP, DVCC

Prerequisite: GVPT354. Restriction: Enrollment is restricted to students in the Minor in International Development and Conflict Management; and sophomore standing or higher; and permission of BSOS-Government & Politics department.

Serves as one of the two capstone courses for the Minor in International Development and Conflict Management. Focuses on advanced theory and the practice and profession of international development and is designed to provide students an introduction to, and a chance to engage with, a core set of practical skills relevant to the field.

0101	Stacy Kosko	Seats (Total: 40)
	Tu 2:00pm - 4:45pm	TYD 2108

GVPT358A **Study Abroad Seminar in Political Science; Migration and Multiculturalism in Europe**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The study of topics in political science.

Contact department for information to register for this course.

GVPT358D **Study Abroad Seminar in Political Science; Politics and Economy of Spain**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The study of topics in political science.

Contact department for information to register for this course.

GVPT358F **Study Abroad Seminar in Political Science; Government and Politics in France**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The study of topics in political science.

Contact department for information to register for this course.

GVPT358P **Study Abroad Seminar in Political Science; Political Rhetoric: Blogs, Speeches, and Spin**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The study of topics in political science.

Contact department for information to register for this course.

GVPT358R **Study Abroad Seminar in Political Science; Religion and Politics in Europe**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The study of topics in political science.

Contact department for information to register for this course.

GVPT368B **Special Topics in Government and Politics; The United States and Israel: Likely or Unlikely Allies?**

Credits: 3 Grading Method: Regular, Audit

The study of topics in government and politics.

Also offered as ISRL329N and PLCY388N. Credit only granted for ISRL329N, GVPT368B, or PLCY388N. This course examines the U.S. - Israel relationship through historical and thematic lenses. Stretching from the pre-state era through the post -Cold War alliance and the intensive U. S. role mediating Arab-Israeli peace, the course covers nearly a century of U. S. foreign policy. It will include domestic sources that have shaped U. S. policy, including public opinion, and conclude by examining scenarios for increased cooperation and managing tension in the relationship.

0101	Scott Lasensky	Seats (Total: 35)
	TuTh 9:30am - 10:45am	SQH 1119

GVPT368L **Special Topics in Government and Politics; African-American Politics from Frederick Douglass to Barack Obama**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The study of topics in government and politics.

Also offered as AASP499P and PLCY388B. Credit only granted for AASP499P, GVPT368L, or PLCY388B.

0101	Jonathan England	Seats (Total: 35)
	Tu 3:30pm - 6:00pm	LEF 1201

GVPT376 **Applied Field Research in Government and Politics**

(Perm req)

Credits: 3-6 Grading Method: Sat-Fail

Prerequisite: GVPT170. Corequisite: GVPT377.

Students in this course participate as interns in an agency of government or in some other appropriate political organization. Assignments are arranged to provide students with insights into both theoretical and practical aspects of politics. Under the tutelage of the host agency and an academic advisor, students conduct a major research project of mutual interest to the student and his or her host agency in the field of government and politics.

Contact department for information to register for this course.

GVPT386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Restriction: Permission of BSOS-Government & Politics department; and junior standing or higher.

Contact department for information to register for this course.

GVPT388 **Topical Investigations**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Independent research and writing on selected topics in government and politics.

Permission of Director of Undergraduate Studies required.

Contact department for information to register for this course.

GVPT388B **Topical Investigations; Innovation in the Public Sector**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Independent research and writing on selected topics in government and politics.

Prerequisite: PSYC100, GVPT100 or ECON200. Also offered as GVPT388B. Credit will be granted for BSOS388f or GVPT 388B. How does innovation occur in the public sector? How can government serve as a catalyst for problem-solving? Using the tools of innovation and entrepreneurship, this laboratory course engages students in a semester-long project to innovate change around a specific public sector issue or industry in our local or regional community. Some examples might include: public broadband access, sustainability infrastructure, transportation improvements, or health care access in the College Park, Prince George's, or Maryland communities. Lead instructor Ken Ulman,'97 is the former Howard County Executive who now heads the University's efforts to transform College Park into one of the most innovative university towns in the country. For permission to register, email bsos-ugdean@umd.edu with your name, UID and a brief statement of why this course is of interest to you.

0101	Samantha O'Neil, Kenneth Ulman	Seats (Total: 20)
	W 4:00pm - 6:30pm	CHT 2113

GVPT388M **Topical Investigations; Mock Trial**

(Perm req)

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

Independent research and writing on selected topics in government and politics.

0101	William Mundy	Seats (Total: 40)
	W 6:30pm - 9:15pm	TYD 1114

GVPT388W **Topical Investigations; Experiential Learning: Maryland, Public Policy, and Beyond**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Independent research and writing on selected topics in government and politics.

Four required in-class meetings on the following Tuesdays from 6:30pm-9:15pm: August 28th, October 23rd, November 13th and December 4th. All other class meetings will be online. Students interested in registering for this course must have an internship secured and must apply to the CAPC Internship Program; the application is available at the link below.

0101	Casey Burgat Class time/details on ELMs Contact instructor or department for details.	Seats (Total: 40) ONLINE

GVPT389 **Experiential Learning II**

(Perm req)

Credits: 3-6

Grading Method: Regular, Pass-Fail, Audit

Experiential credit for working in government & politics related internships, research, and teaching opportunities.

Junior standing.

Contact department for information to register for this course.

GVPT390 **Game Theory**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Restriction: Must not have completed ECON414. Credit only granted for: GVPT399A, GVPT390, CMSC474 or ECON414. Formerly: GVPT399A.

Introduction to game theory with applications to political science, economics and sociology. Topics include preference theory, expected utility theory, Nash equilibria, subgame perfection, repeated games, folk theorems, and evolutionary stability.

0101	Piotr Swistak Tu 2:00pm - 4:45pm	Seats (Total: 30) TYD 0101

GVPT396 **Introduction to Honors Research**

(Perm req)

Credits: 3

Grading Method: Regular

Restriction: Must be in Government & Politics Honors Program; and must have permission of the Government & Politics Honors Program.

A required course for all honors students designed to emphasize library research, methodology, and writing skills in political science and political philosophy. A written proposal, bibliography and research design for an honors paper required of all students as a final project.

Contact department for information to register for this course.

GVPT397 **Honors Research**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: GVPT396. Restriction: Must be in Government & Politics Honors Program.

Individual reading and research. Preparation of an original paper.

Contact department for information to register for this course.

GVPT399C **Seminar in Government and Politics; The Case of Catalonia**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Reading, research, discussion, analysis, and writing in the area of politics. Both substantive issues and methodological approaches will be considered. Primarily for government and politics undergraduate majors.

Contact department for information to register for this course.

GVPT399D **Seminar in Government and Politics; Society and Politics in Contemporary Spain**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Reading, research, discussion, analysis, and writing in the area of politics. Both substantive issues and methodological approaches will be considered. Primarily for government and politics undergraduate majors.

Contact department for information to register for this course.

GVPT399I **Seminar in Government and Politics; Globilization**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Reading, research, discussion, analysis, and writing in the area of politics. Both substantive issues and methodological approaches will be considered. Primarily for government and politics undergraduate majors.

Contact department for information to register for this course.

GVPT399L **Seminar in Government and Politics; British Politics**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Reading, research, discussion, analysis, and writing in the area of politics. Both substantive issues and methodological approaches will be considered. Primarily for government and politics undergraduate majors.

Contact department for information to register for this course.

GVPT399N **Seminar in Government and Politics; Political Movements in the European Union**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Reading, research, discussion, analysis, and writing in the area of politics. Both substantive issues and methodological approaches will be considered. Primarily for government and politics undergraduate majors.

Contact department for information to register for this course.

GVPT399U **Seminar in Government and Politics; Democracy and Government Today**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Reading, research, discussion, analysis, and writing in the area of politics. Both substantive issues and methodological approaches will be considered. Primarily for government and politics undergraduate majors.

Contact department for information to register for this course.

GVPT399X **Seminar in Government and Politics; Political Movements in the European Union**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Reading, research, discussion, analysis, and writing in the area of politics. Both substantive issues and methodological approaches will be considered. Primarily for government and politics undergraduate majors.

Contact department for information to register for this course.

GVPT402 **International Law**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GVPT200. Restriction: Must be in Government & Politics program; and junior standing or higher.

A study of the basic character, general principles and specific rules of international law, with emphasis on recent and contemporary trends in the field and its relation to other aspects of international affairs.

Contact department for information to register for this course.

GVPT409A **Seminar in International Relations and World Politics; Peace, Justice, and Conflict Resolution**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Reading, writing, and research on topics in international relations and world politics. Both substantive issues and methodological approaches will be considered.

Restriction: Must be in Government & Politics program or Government & Politics: International Relations program.

0101	Gabriella Lloyd TuTh 2:00pm - 3:15pm	Seats (Total: 30) ARC 1105

GVPT409H **Seminar in International Relations and World Politics; Nationalism and Ethnic Conflict**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Reading, writing, and research on topics in international relations and world politics. Both substantive issues and methodological approaches will be considered.

Prerequisite: GVPT201. Restriction: Must be in the Government and Politics Honors Program.

0101	Kathleen Cunningham TuTh 9:30am - 10:45am	Seats (Total: 20) TYD 0101

GVPT409Q **Seminar in International Relations and World Politics; Globalization and the Future of Politics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Reading, writing, and research on topics in international relations and world politics. Both substantive issues and methodological approaches will be considered.

SG91	Laszlo Korossy Tu 9:30am - 12:00pm *Restricted to CCJS students at Shady Grove.*	Seats (Total: 30) BLD3 3203
SG92	Laszlo Korossy Tu 9:30am - 12:00pm *Restricted to SPHL students at Shady Grove.*	Seats (Total: 10) Location: TBA

GVPT409V **Seminar in International Relations and World Politics; Game Theory And International Security**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Reading, writing, and research on topics in international relations and world politics. Both substantive issues and methodological approaches will be considered.

Contact department for information to register for this course.

GVPT421 **Advanced Quantitative Methods**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GVPT201. Restriction: Must be in one of the following programs (Government & Politics; Government & Politics: International Relations).

Advanced quantitative methods for political science research.

0101	Sarah Croco	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	LEF 0227

GVPT424 **Quantitative Study of International Relations**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GVPT201. Restriction: Must be in one of the following programs (Government & Politics; Government & Politics: International Relations). Credit only granted for: GVPT409H (Fall 2015 and Fall 2016) or GVPT424. Formerly: GVPT409H (Fall 2015 and Fall 2016).

A comprehensive introduction to the quantitative study of international conflict. Students will perform statistical analysis of international conflict data using the R software platform.

0101	Sarah Croco	Seats (Total: 20)
	TuTh 12:30pm - 1:45pm	LEF 0227

GVPT431 **Introduction to Constitutional Law**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GVPT170 and GVPT331. Restriction: Must be in one of the following programs (Government & Politics; Government & Politics: International Relations) ; and junior standing or higher.

A systematic inquiry into the general principles of the American constitutional system, with special reference to the role of the judiciary in the interpretation and enforcement of the federal constitution.

0101	Michael Spivey MW 1:00pm - 2:15pm	Seats (Total: 75) TYD 2109

GVPT439B **Seminar in Public Law; First Amendment: Free Speech, Religion, and the Constitution**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Reading, writing, and research on topics in public law. Both substantiv issues and methodological approaches will be considered.

Restriction: Must be in Government & Politics program or Government & Politics: International Relations program. Credit only granted for GVPT439B or MLAW358F.

0101	Michael Spivey MW 3:00pm - 4:15pm	Seats (Total: 40) TYD 0111

GVPT439W **Seminar in Public Law; Women, Gender, and Law**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Reading, writing, and research on topics in public law. Both substantiv issues and methodological approaches will be considered.

SG91	Samantha Davis W 3:30pm - 6:00pm *Restricted to CCJS students at Shady Grove.*	Seats (Total: 30) BLD3 2225

GVPT443 **Contemporary Political Theory**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GVPT241. Restriction: Must be in Government & Politics program.

A survey of the principal political theories and ideologies set forth in the works of writers from Karl Marx to the present.

Contact department for information to register for this course.

GVPT445H **Marxism and Postmarxism**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in a major within BSOS-Government & Politics department.

The study of Marxist thought and an assessment of the critical transformations and reassessments of the theory and practice of Marxism.

Restriction: Must be in the Government and Politics Honors Program.

0101	Vladimir Tismaneanu Th 2:00pm - 4:45pm	Seats (Total: 20) TYD 2108

GVPT449G **Seminar in Political Philosophy; Global Justice**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Reading, writing, and research on topics in political philosophy. Both substantive issues and methodological approaches will be considered.

Restriction: Must be in Government & Politics program or Government & Politics: International Relations program.

0101	Sujith Kumar MW 3:00pm - 4:15pm	Seats (Total: 30) TYD 1101

GVPT456 **The Politics of Terrorism**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GVPT200. Restriction: Must be in Government & Politics program; or must be in Government & Politics: International Relations program. Credit only granted for: GVPT456 or GVPT459T. Formerly: GVPT459T.

Examination of the definition, causes and organization of terrorist activity, along with key domestic and international counter- and anti-terrorism responses. Special emphasis on challanges and opportunities to the scientific study of terrorism.

0101	Kanisha Bond TuTh 9:30am - 10:45am	Seats (Total: 30) TYD 1118

GVPT458J **Special Topics in Study Abroad IV; Economic and Political Institutions of the European Union**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

GVPT458R **Special Topics in Study Abroad IV; Terrorism and Counterterroism in International Politics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

GVPT458W **Special Topics in Study Abroad IV; US & Europe Since 1945**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

GVPT459B **Seminar in Comparative Politics; Comparative Political Institutions**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Reading, writing, and research on topics in comparative politics. Both substantive issues and methodological approaches will be considered.

Prerequisite: GVPT280 or GVPT282. Restriction: Must be in Government and Politics program.

0101	Ernesto Calvo TuTh 12:30pm - 1:45pm	Seats (Total: 30) TYD 1114

GVPT459G **Seminar in Comparative Politics; Weak and Failing States in the International System**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Reading, writing, and research on topics in comparative politics. Both substantive issues and methodological approaches will be considered.

Restriction: Must be in Government & Politics program or Government & Politics: International Relations program. This course will cover the primary theories, concepts, and concerns of weak and failing states in the international system. The course material will address these issues at both the international and domestic levels, demonstrating how they interconnect. Using real-world examples such as Somalia and Afghanistan, the class will link readings to reality, and challenge students to analyze cases at both the component-level and the holistic-level. Topics will include: weak and porous borders, ethnic fractionalization, institutional weakness, secession and irredentism, international spillover of conflict, and more.

0101	Jacob Lewis TuTh 12:30pm - 1:45pm	Seats (Total: 30) TYD 2108

GVPT459I **Seminar in Comparative Politics; Thinking Like a Citizen: Civic Ideals and Civic Practices**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Reading, writing, and research on topics in comparative politics. Both substantive issues and methodological approaches will be considered.

Prerequisite: GVPT200 or GVPT280. Restriction: Must be in the Governmentand Politics program. All other majors will be placed on the holdfile. This course is an introduction to the emerging field of civic studies. It takes as a starting point the idea of citizens as co-creators of their many worlds, their various communities, their countries, and of course the literal world. We will look into what knowledge and what ways of thinking are most helpful to such co-creators. Topics will include: civic work in the small (human interaction, politics, power resources), finding and building shared ground, impediments to civic action (problem of a collective action, limited human brain, the power of the status quo), and venues of civic action (including communities, social movements, countries, and the world).

0101	Karol Soltan	Seats (Total: 30)
	TuTh 2:00pm - 3:15pm	TYD 1132

GVPT459M **Seminar in Comparative Politics; Social Movements**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Reading, writing, and research on topics in comparative politics. Both substantive issues and methodological approaches will be considered.

Prerequisite: GVPT280 or GVPT282. Restriction: Must be in Government and Politics program.

0101	Kanisha Bond	Seats (Total: 30)
	TuTh 12:30pm - 1:45pm	TYD 1101

GVPT459R **Seminar in Comparative Politics; The Rise and Fall of Communism**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Reading, writing, and research on topics in comparative politics. Both substantive issues and methodological approaches will be considered.

Restriction: Must be in Government & Politics program or Government & Politics: International Relations program.

0101	Vladimir Tismaneanu	Seats (Total: 30)
	TuTh 11:00am - 12:15pm	TYD 1118

GVPT459T **Seminar in Comparative Politics; Tweeting Political Crises**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Reading, writing, and research on topics in comparative politics. Both substantive issues and methodological approaches will be considered.

Restriction: Must be in Government & Politics program or Government & Politics: International Relations program.

0101	Ernesto Calvo TuTh 2:00pm - 3:15pm	Seats (Total: 30) TYD 1102	

GVPT473 **The U.S. Congress**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GVPT241 and GVPT170. Restriction: Junior standing or higher. And must be in Government & Politics program; or must be in Government & Politics: International Relations program.

A detailed survey of lawmaking and the legislative process, emphasizing the U.S. Congress, and its members.

0101	Eric Uslaner MW 10:00am - 10:50am F 9:00am - 9:50am	Seats (Total: 25) TYD 1101 SQH 1105	Discussion
0102	Eric Uslaner MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 25) TYD 1101 SQH 1105	Discussion
0103	Eric Uslaner MW 10:00am - 10:50am F 1:00pm - 1:50pm	Seats (Total: 25) TYD 1101 KEY 0103	Discussion

GVPT474 **Political Parties**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GVPT241 and GVPT170. Restriction: Must be in Government & Politics program.

A descriptive and analytical examination of American political parties, nominations, elections, and political leadership.

0101	David Karol	Seats (Total: 30)
	MW 4:00pm - 5:15pm	TYD 1114

GVPT475 **The Presidency and the Executive Branch**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GVPT241 and GVPT170. Restriction: Must be in Government & Politics program; and junior standing or higher.

An examination of the U.S. presidency in historical and contemporary perspective: nomination and electoral politics and the president's place in policy-making, administration, and public opinion.

0101	Irwin Morris	Seats (Total: 30)
	TuTh 9:30am - 10:45am	TYD 1102

GVPT479A **Seminar in American Politics; Mobilization and Civic Engagement**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Reading, writing, and research on topics in American politics. Both substantive issues and methodological approaches will be considered.

Restriction: Must be in Government & Politics program or Government & Politics: International Relations program. This course will expose students to political engagement both inside and outside of the classroom. Inside the classroom we will review the key literature on political participation, with an emphasis on mobilization strategies. Both inside and outside the classroom students will team up to develop and implement strategies to provide information to the campus community, particularly fellow students, about voter registration and voting. Along the way, students will learn about various research designs and the analysis of data. The course requires commitments outside of class hours. For permission to register please send a statement of interest to Dr. Michael Hanmer at mhanmer@umd.edu.

0101	Michael Hanmer	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	TYD 1102

GVPT479H **Seminar in American Politics; Racial and Ethnic Politics in the Obama Era**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Reading, writing, and research on topics in American politics. Both substantive issues and methodological approaches will be considered.

Restriction: Must be in the Government and Politics Honors program. Credit only granted for GVPT479H or GVPT289O.

0101	Antoine Banks	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	TYD 0102

GVPT479Y **Seminar in American Politics; POLITICAL PSYCHOLOGY**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Reading, writing, and research on topics in American politics. Both substantive issues and methodological approaches will be considered.

Restriction: Must be in Government and Politics program.

0101	Heather Hicks	Seats (Total: 30)
	TuTh 2:00pm - 3:15pm	TYD 1101

GVPT482 **Government and Politics of Latin America**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in Government & Politics program; or must be in Government & Politics: International Relations program.

A comparative study of the governmental systems and political processes of the Latin American countries.

0101	Isabella Alcaniz	Seats (Total: 30)
	TuTh 2:00pm - 3:15pm	SQH 1117

GVPT485 **Government and Politics of the Middle East**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GVPT200; and (GVPT282 or GVPT280). Restriction: Must be in Government & Politics program.

A comparative study of the governmental systems and political processes of the African countries, with special emphasis on the problems of nation-building in emergent countries.

Contact department for information to register for this course.

GVPT487 **Government and Politics of China**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in one of the following programs (Government & Politics; Government & Politics: International Relations) ; and junior standing or higher. Credit only granted for: GVPT359A or GVPT487. Formerly: GVPT359A.

Discussion of major issues in the study of the domestic politics of the People's Republic of China.

0101	Margaret Pearson	Seats (Total: 30)
	MW 2:00pm - 3:15pm	TYD 2106

GVPT599 **Teaching Political Science**

Credits: 1

Grading Method: Regular, Audit

Problems in teaching political science. Topics covered include lecture and discussion strategies, creation of an active learning environment, construction and evaluation of examinations, department and university policies, and dealing with various types of teaching problems. This course does not carry credit towards any degree at the University.

0101	Kathleen Cunningham	Seats (Total: 20)
	Contact instructor or department for details.	

GVPT622 **Quantitative Methods For Political Science**

Credits: 3

Grading Method: Regular, Audit

Introduction to quantitiative methods of data analysis, with emphasis on statistical methods and computer usage. Measures of association, probability, correlation, linear regression estimation techniques, introductory analysis of variance, and use of package computer programs.

Course will meet in the LeFrak OASIS lab. For GVPT majors only.

0101	Patrick Wohlfarth	Seats (Total: 12)	
	Tu 3:30pm - 6:15pm	LEF 0227	
	F 2:00pm - 4:00pm	LEF 0227	Discussion

GVPT629 **Seminar in Research Design**

Credits: 1

Grading Method: Regular, Audit

This is designed to extend and deepen graduate students understanding o research design in empirical political science. Focus is placed on major issues in planning a research project: developing strong theories, formulating clear hypotheses, and crafting strategies to test theories and rule out rival, alternative explanations. Also, issues of effective communication of research will be considered. To get beyond abstractions, examples of research in American politics will be considered and evaluated. Technical issues of statistical analysis or broader epistemological questions in social science will not be covered.

Contact department for information to register for this course.

GVPT700 **Scope and Method of Political Science**

Credits: 3 Grading Method: Regular, Audit

Required of all Ph.D. candidates. A seminar in the methodologies of political science, and their respective applications to different research fields. Interdisciplinary approaches and bibliographical techniques are also reviewed.

For GVPT majors only.

0101	Mark Lichbach W 3:30pm - 6:15pm	Seats (Total: 12) TYD 1136

GVPT708A **Seminar in International Relations Theory; International Relations Theory**

Credits: 3 Grading Method: Regular, Audit

An examination of the major approaches, concepts, and theories in the study of world politics with special emphasis on contemporary literature.

0101	Kathleen Cunningham Tu 12:30pm - 3:15pm	Seats (Total: 12) TYD 1111

GVPT729A **Special Topics in Quantitative Political Analysis; Advanced Maximum Likelihood Estimation**

Credits: 3 Grading Method: Regular, Audit

An intensive examination of special topics in quantitative methods of political analysis in such areas as survey research methods, exploratory data analysis, advanced data management techniques, or advanced methods of policy analysis.

0101	William Reed Th 3:30pm - 6:15pm	Seats (Total: 12) LEF 0227

GVPT761 **International Political Economy**

Credits: 3 Grading Method: Regular, Audit

Recommended: GVPT708.

Major issues in international political economy including such matters as the monetary system, trade, debt, and development.

0101	Todd Allee	Seats (Total: 12)
	M 3:30pm - 6:15pm	TYD 1136

GVPT770 **Seminar in American Political Institutions**

Credits: 3 Grading Method: Regular, Audit

This is the core institutions seminar in American politics. The course surveys the primary literature in the field and addresses substantively significant topics related to the study of political institutions in the American context.

0101	Kristina Miler	Seats (Total: 12)
	Tu 12:30pm - 3:15pm	TYD 1136

GVPT780 **Seminar in the Comparative Study of Politics**

Credits: 3 Grading Method: Regular, Audit

An examination of the salient approaches to and conceptual frameworks for the comparative study of politics, followed by the construction of models and typologies of political systems.

0101	Mark Lichbach	Seats (Total: 12)
	Th 9:30am - 12:15pm	TYD 1136

GVPT799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

GVPT849 **Readings in Government and Politics**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Guided readings and discussions on selected topics in political science

Contact department for information to register for this course.

GVPT874 **Seminar in Political Parties and Politics**

Credits: 3 Grading Method: Regular, Audit

Reports on topics assigned for individual study and reading in the fields of political organization and action.

0101	David Karol	Seats (Total: 12)
	W 6:15pm - 9:00pm	TYD 1111

GVPT888B **Selected Topics in Comparative Governmental Institutions; Democracy and Democratization**

Credits: 3 Grading Method: Regular, Audit

An examination of special topics in comparative politics.

0101	Isabella Alcaniz	Seats (Total: 12)
	Tu 9:30am - 12:15pm	TYD 1136

GVPT898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Guided readings and discussions on selected topics in political science.

Contact department for information to register for this course.

GVPT899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

HACS ACES-Cybersecurity Fall 2018

HACS100 **Foundations in Cybersecurity I**

Credits: 2 Grading Method: Regular

Restriction: Must be a student in the ACES (Advanced Cybersecurity Experience for Students) Living-Learning Program.

Interdisciplinary foundational course of the ACES program. Through lectures, lab activities, and discussions, students will learn and practice various aspects of cybersecurity. Weekly technical lectures will introduce students to the operating system UNIX. Students will partner with the Division of Information Technology in a project to engage the University of Maryland community in a cyber-hygiene and cyber-ethics campaign based on the concepts learned in class.

Restriction: Must be a student in the ACES (Advanced Cybersecurity Exper ience for Students) Living-Learning Program.

0101	Jandelyn Plane M 9:00am - 9:50am W 9:00am - 9:50am	Seats (Total: 35) PFR 1111 PFR 1111
0201	Jandelyn Plane M 10:00am - 10:50am W 10:00am - 10:50am	Seats (Total: 35) PFR 1111 PFR 1111
0301	Jandelyn Plane M 11:00am - 11:50am W 11:00am - 11:50am	Seats (Total: 35) PFR 1111 PFR 1111

HACS200 **Applied Cybersecurity Foundations II**

Credits: 2 Grading Method: Regular General Education: DSSP

Prerequisite: Minimum grade of C- in HACS101. Restriction: Must be a student in the ACES (Advanced Cybersecurity Experience for Students) Living-Learning Program.

Students will apply the skills learned in HACS 100 and 101 to practice cybersecurity research through team led projects employing honeypots, carrying that project through all stages - proposal, implementation, and analysis. Weekly lectures will supplement project work by addressing trends observed in honeypot attacks and protections needed, along with data collection and analysis tools, and other foundational cybersecurity concepts.

Must be a student in the ACES (Advanced Cybersecurity Experience for Students) Living-Learning Program.

0101	Michel Cukier Tu 3:30pm - 5:10pm	Seats (Total: 36) PFR 1111
0201	Michel Cukier Th 3:30pm - 5:10pm	Seats (Total: 36) PFR 1111

HACS201 **Introduction to UNIX**

Credits: 1 Grading Method: Regular

Restriction: Must be a first-year student in the ACES (Advanced Cybersecurity Experience for Students) Minor Program. Credit only granted for: HACS201 or CMSC216. Additional information: Required course for students who have not completed the ACES Living-Learning Program or taken CMSC216.

Introduction to the operating system UNIX through lectures and hands-on assignments.

0101	Jandelyn Plane	Seats (Total: 25)
	Meets August 27, 2018 - October 1, 2018	
	TuTh 3:30pm - 4:50pm	PFR 0103

HACS202 Group Project in Cybersecurity

Credits: 3 Grading Method: Regular

Restriction: Must be a first-year student in the ACES (Advanced Cybersecurity Experience for Students) Minor Program; and cannot have been an ACES Living-Learning Program student (i.e., have taken HACS100 and HACS102).

The group project in this course will combine technical, analytical, and communication skills, further engaging students in the practice of cybersecurity. Students will learn about design concepts and data analysis as they engage in a team project designing, deploying, and collecting and analyzing data from a honeypot. The hands-on nature of the course will give students experiential insight about how and why attackers attack and how to engage in protective measures to prevent attacks.

0101	Bertrand Sobesto	Seats (Total: 25)
	TuTh 5:00pm - 6:15pm	PFR 0103

HACS208N Seminar in Cybersecurity; Seminar in Cybersecurity; Digital Forensics

Credits: 3 Grading Method: Regular General Education: DSSP

Explores various lenses of cybersecurity in order to promote an interdisciplinary understanding of the field. Although each section may focus on a different topic, each integrates active student engagement, communication, critical communication, critical thinking, and teamwork.

Restriction: Must be a student in the ACES (Advanced Cybersecurity Experience for Students) Living-Learning Program.

0101	Marcelle Lee	Seats (Total: 23)
	Th 4:00pm - 6:45pm	LEF 1222
	Must be a student in the ACES Honors Program	

HACS208P Seminar in Cybersecurity; Beyond Technology, the Policy Implications of Cyberspace

Credits: 3 Grading Method: Regular General Education: DSHS, SCIS

Explores various lenses of cybersecurity in order to promote an interdisciplinary understanding of the field. Although each section may focus on a different topic, each integrates active student engagement, communication, critical communication, critical thinking, and teamwork.

Restriction: Must be a student in the ACES (Advanced Cybersecurity Experience for Students) Living-Learning Program.

0101	Charles Harry TuTh 12:30pm - 1:45pm	Seats (Total: 20) PFR 1111

HACS208Y **Seminar in Cybersecurity; Cyber Psychology**

(Perm req)

Credits: 3 Grading Method: Regular General Education: DSHS, SCIS

Explores various lenses of cybersecurity in order to promote an interdisciplinary understanding of the field. Although each section may focus on a different topic, each integrates active student engagement, communication, critical communication, critical thinking, and teamwork.

Restriction: Must be a student in the ACES (Advanced Cybersecurity Experience for Students) Living-Learning Program. Repeatable to 6 credits if content differs.

0101	Alan Drew TuTh 11:00am - 12:15pm	Seats (Total: 20) PFR 1111

HACS279 **Undergraduate Research in Cybersecurity**

(Perm req)

Credits: 1-3 Grading Method: Regular

The Advanced Cybersecurity Experience for Students (ACES) program encourages its students to engage in research in order to gain greater insight into a specific area within cybersecurity, obtain an appreciation for the subtleties and difficulties associated with the production of knowledge and fundamental new applications, and to prepare for graduate school and the workforce.

Contact department for information to register for this course.

HACS287 **Undergraduate Research in Cybersecurity**

(Perm req)

Credits: 3 Grading Method: Regular General Education: DSSP

Restriction: Must be a student in the ACES (Advanced Cybersecurity Experience for Students) Living-Learning Program; and permission of UGST-HCOL-ACES Cybersecurity Program.

The Advanced Cybersecurity Experience for Students (ACES) program encourages its students to engage in research in order to gain greater insight into a specific area within cybersecurity, obtain an appreciation for the subtleties and difficulties associated with the production of knowledge and fundamental new applications, and to prepare for graduate school and the workforce.

Contact department for information to register for this course.

HACS297 **Cybersecurity Experience Reflection**

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Must be a student in the ACES (Advanced Cybersecurity Experience for Students) Living-Learning Program; and permission of UGST-HCOL-ACES Cybersecurity Program.

Cybersecurity experience is defined as an experiential learning activity either with a University of Maryland entity (such as the Division of Information Technology, the ACES competition team or in an ACES outreach program), or with an external organization that will provide valuable, hands-on experience to supplement the knowledge learned in the other ACES coursework.

Permission of department required.

0101	Christal Dimas M 4:00pm - 6:45pm	Seats (Total: 20) PFR 1111

HACS408E **Advanced Seminar in Cybersecurity; Applied Reverse Engineering**

(Perm req)

Credits: 3 Grading Method: Regular

Explores various lenses of cybersecurity in order to promote an interdisciplinary understanding of the field. Although each section may focus on a different topic, each integrates active student engagement, communication, critical communication, critical thinking, and teamwork.

Must be a student in the ACES (Advanced Cybersecurity Experience for Students) Minor Program.

0101	Catherine Redfield M 6:00pm - 8:45pm	Seats (Total: 20) PFR 0103

HACS408F **Advanced Seminar in Cybersecurity; Comparative International Cybersecurity Policy**

(Perm req)

Credits: 3 Grading Method: Regular

Explores various lenses of cybersecurity in order to promote an interdisciplinary understanding of the field. Although each section may focus on a different topic, each integrates active student engagement, communication, critical communication, critical thinking, and teamwork.

0101	Kelly Wong	Seats (Total: 15)
	W 3:30pm - 6:15pm	JMZ 3122

HACS408L **Advanced Seminar in Cybersecurity; Analytical and Forensic Techniques for Cybersecurity**

Credits: 3 Grading Method: Regular

Explores various lenses of cybersecurity in order to promote an interdisciplinary understanding of the field. Although each section may focus on a different topic, each integrates active student engagement, communication, critical communication, critical thinking, and teamwork.

Must be a student in the ACES (Advanced Cybersecurity Experience for Students) Minor Program.

0101	Brian Osborn	Seats (Total: 20)
	W 4:00pm - 6:45pm	VMH 1107

HACS479 **Undergraduate Research in Cybersecurity**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

The Advanced Cybersecurity Experience for Students (ACES) program encourages its students to engage in research in order to gain greater insight into a specific area within cybersecurity, obtain an appreciation for the subtleties and difficulties associated with the production of knowledge and fundamental new applications, and to prepare for graduate school and the workforce.

Contact department for information to register for this course.

HACS498 **Cybersecurity Group Problem Solving**

(Perm req)

Credits: 3 Grading Method: Regular

The Advanced Cybersecurity Experience for Students (ACES) program encourages its students to engage in team problem solving activities in order to gain greater insight into a specific area within cybersecurity and to obtain an appreciation for the subtleties and difficulties associated with these activities in order to prepare students for graduate school and the workforce. Students engage in a semester long problem solving or development project under the mentorship of a industry specialist and with the guidance of university faculty. Through the exercise the students will develop teamwork experience and professional communication skills in addition to experience of the project itself. The project might be evaluation, creation, testing or analysis of some area of cybersecurity as needed by the mentor-sponsor. A contract of what will be accomplished is required must be agreed upon by the mentor, the student and the ACES leadership before the project can begin.

Restriction: Must be a student in the ACES (Advanced Cybersecurity Experience for Students) Minor Program.

0101	Paul Watrobski, Michel Cukier, Alex Parisi Contact instructor or department for details.	Seats (Total: 10)	
0201	Michel Cukier, Darren King Contact instructor or department for details.	Seats (Total: 10)	
0301	Howard Michael, Joseph Dougherty Contact instructor or department for details.	Seats (Total: 10)	

HDCC Design Cultures and Creativity Fall 2018

HDCC105 **Introduction to Digital Cultures and Creativity I**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in the Digital Cultures and Creativity Honors College Living/Learning program.

History, concepts, and technologies of creative digital expression, coupled with an introduction to development for particular platforms and devices.

0101	Jason Farman Tu 4:00pm - 5:15pm W 4:00pm - 4:50pm	Seats (Total: 16) PFR 1105 PFR 1105	 Discussion
0102	Jason Farman Tu 4:00pm - 5:15pm W 5:00pm - 5:50pm	Seats (Total: 16) PFR 1105 PFR 1105	 Discussion
0103	Jason Farman Tu 4:00pm - 5:15pm Th 4:00pm - 4:50pm	Seats (Total: 16) PFR 1105 PFR 1105	 Discussion
0104	Jason Farman Tu 4:00pm - 5:15pm Th 5:00pm - 5:50pm	Seats (Total: 16) PFR 1105 PFR 1105	 Discussion

HDCC208B **Seminar in Digital Cultures and Creativity; Digital Storytelling**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

An advanced seminar in specific aspects of digital culture and creativity, designed to keep students abreast of the latest developments in new media and the online world. Possible topics include mobile gaming, digital storytelling, and electronic music.

Restriction: Must be in the Digital Cultures and Creativity Honors Colle ge Living/ Learning program. Prerequisite: HDCC105 and HDCC106.

0101	Porter Olsen	Seats (Total: 13)
	W 4:00pm - 6:30pm	PFR 0111

HDCC208K **Seminar in Digital Cultures and Creativity; Digital Media and Activism**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

An advanced seminar in specific aspects of digital culture and creativity, designed to keep students abreast of the latest developments in new media and the online world. Possible topics include mobile gaming, digital storytelling, and electronic music.

Prereq: Must be in the Digital Cultures and Creativity Honors College Living/ Learning program. Prerequisite: HDCC105 and HDCC106.

0101	Sahar Khamis	Seats (Total: 13)
	Tu 5:00pm - 7:30pm	WDS 1127

HDCC208N **Seminar in Digital Cultures and Creativity; Innovations in Images and Technology**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

An advanced seminar in specific aspects of digital culture and creativity, designed to keep students abreast of the latest developments in new media and the online world. Possible topics include mobile gaming, digital storytelling, and electronic music.

Must be in the Digital Cultures and Creativity Honors College Living/Learning program. Prerequisite: HDCC105 and HDCC106.

0101	Evan Golub	Seats (Total: 13)
	TuTh 12:30pm - 1:45pm	WDS 1131

HDCC208W **Seminar in Digital Cultures and Creativity; Making is Fun(damentally Complicated): Maker Culture, Social Justice, and Speculative Elsewheres**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

An advanced seminar in specific aspects of digital culture and creativity, designed to keep students abreast of the latest developments in new media and the online world. Possible topics include mobile gaming, digital storytelling, and electronic music.

Must be in the Digital Cultures and Creativity Honors College Living/ Learning program. Prerequisite: HDCC105 and HDCC106.

0101	DB Bauer	Seats (Total: 13)
	Th 4:00pm - 6:30pm	PFR 0111

HDCC208Y **Seminar in Digital Cultures and Creativity; Book Lab: The History the Book and the Future of Reading**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

An advanced seminar in specific aspects of digital culture and creativity, designed to keep students abreast of the latest developments in new media and the online world. Possible topics include mobile gaming, digital storytelling, and electronic music.

Must be in the Digital Cultures and Creativity Honors College Living/ Learning program. Prerequisite: HDCC105 and HDCC106.

0101	Kari Kraus	Seats (Total: 13)
	TuTh 11:00am - 12:15pm	PFR 0111

HDCC379 **Digital Cultures and Creativity Independent Study**

(Perm req)

Credits: 3 Grading Method: Regular

Involves research and/or creative scholarship directed by individual DCC faculty outside of the formal classroom structure.

Prequisites: HDCC 208 and HDCC 209.

0101	Krista Caballero	Seats (Total: 5)
	Contact instructor or department for details.	

HEBR Hebrew Fall 2018

HEBR106 **Intensive Elementary Hebrew I**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have appropriate Foreign Language Placement Assessment (FLPA) score. Credit only granted for: HEBR111 or HEBR106.

An intensive study of fundamentals of Hebrew reading, writing, listening and Israeli culture. Covers present tense in all verb categories, basic syntax and builds vocabulary.

0101	Aharona Rosenthal	Seats (Total: 25)
	TuTh 11:00am - 12:15pm Class time/details on ELMs	JMZ 2120 ONLINE

HEBR112 **Elementary Hebrew II**

Credits: 6 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: HEBR111; or must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not have completed HEBR103; and must not have completed HEBR104. Credit only granted for: (HEBR103 and HEBR104) or HEBR112.

Continuation of HEBR 111.

Contact department for information to register for this course.

HEBR206 **Intermediate Intensive Hebrew I**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed HEBR107 OR HEBR112; or must have appropriate Foreign Language Placement Assessment(FLPA) score. Restriction: Must not be a fluent/native speaker of Hebrew. Credit only granted for: HEBR206 or HEBR211.

Provides a comprehensive review of the fundamentals of Hebrew grammar and oral skills, and introduces new skills in future tense verb conjugation, and communication in reading, writing, listening and speaking.

0101	Aharona Rosenthal	Seats (Total: 20)
	TuTh 12:30pm - 1:45pm Class time/details on ELMs	JMZ 2120 ONLINE

HEBR212 **Intermediate Hebrew II**

Credits: 6 Grading Method: Regular, Pass-Fail, Audit CORE: HO

Prerequisite: HEBR211; or permission of ARHU-School of Languages, Literatures, and Cultures department. Restriction: Must not have completed HEBR203; and must not have completed HEBR204. Credit only granted for: (HEBR203 and HEBR204) or HEBR212.

Continuation of HEBR211.

Contact department for information to register for this course.

HEBR249M **Special Topics in Hebrew Studies; Israeli Music**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

A broad range of cultural and societal topics pertaining to the communication of Hebrew.

Taught in Hebrew. An examination of important Israeli musical artists and genres and their impact on Israeli society and culture.

0101	Avital Karpman	Seats (Total: 20)
	Class time/details on ELMs	ONLINE

HEBR313 **Conversation and Composition I**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

General Education: DSHU

Prerequisite: HEBR212; or students who have taken courses with comparable content may contact the department.

A practical language course recommended for all students continuing with Hebrew. Review of grammar and composition. Selected readings. Oral and written exercises.

0101	Aliza Sandalon	Seats (Total: 15)
	Class time/details on ELMs	ONLINE
0201	Aliza Sandalon	Seats (Total: 15)
	Class time/details on ELMs	ONLINE

HEBR369A **Special Topics in Study Abroad III; Hebrew Lower Advanced**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

HEBR369C **Special Topics in Study Abroad III; Hebrew Upper Advanced**

Credits: 6

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

HEBR369D **Special Topics in Study Abroad III; Hebrew Upper Intermediate**

Credits: 6 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

HEBR386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Restriction: Must have a Learning Proposal approved by the Office of Experiential Learning Programs, faculty sponsor, and student's internship sponsor; and junior standing or higher.

Contact the department to obtain section numbers.

Contact department for information to register for this course.

HEBR498Q **Special Topics in Hebrew; The Self and the "Other" in Israeli Culture: Literature, Film, and Television**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Also offered as CMLT398B, FILM329J, HEBR498Q and JWST319Q. Credit granted only for ISRL349Q, CMLT398B, FILM329J, HEBR498Q, or JWST319Q. Modern Israel includes people of many different faiths, ethnicities, languages, and cultures, but Jews of European origin have generally dominated its political and cultural climate. Through literature and film, we will explore how the sense of the "self" is constructed and how the "other" is imagined in Israeli culture. "Others" include Palestinians, Sephardim, Mizrahim, non-Zionists, women, and Eastern Europeans who do not relinquish their ties to the past, as well as other individuals who resist the collective ideologies of a nation constructing itself.

0101	Chen Edrei	Seats (Total: 40)
	TuTh 11:00am - 12:15pm	HBK 0103

HEBR499 **Independent Study in Hebrew**

(Perm req)

Credits: 1-3 Grading Method: Regular

Independent study under faculty supervision.

Contact the department to obtain section numbers.

Contact department for information to register for this course.

HEIP Entrepreneurship and Innovation Fall 2018

HEIP143 **Foundations of Entrepreneurship and Innovation**

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in the Entrepreneurship and Innovation Program (EIP).

Foundational ideas and terms in entrepreneurship and innovation are introduced, with attention to developing students understanding of cultivating a business in diverse, global environments; leading and collaborating in a competitive world; developing an entrepreneurial mind for an entrepreneurial world; and industry dynamics of technological innovation.

0101	Jay Smith M 5:00pm - 5:50pm	Seats (Total: 120) ATL 2324

HEIP240 **Exploring International Entrepreneurship and Innovation**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

General Education: DSSP

Restriction: Must be an EIP student in good-standing.

An introduction to the opportunities and challenges of entrepreneurship and innovation from an international perspective.

0101	John Jabara, Jay Smith TuTh 12:30pm - 1:45pm	Seats (Total: 36) LPA 0100
0201	Jay Smith, John Jabara TuTh 3:30pm - 4:45pm	Seats (Total: 55) LPA 0100

HESI Higher Ed, Student Affairs, and International Ed Policy — Fall 2018

HESI217 **Introduction to Student Leadership**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

General Education: DSSP

Restriction: Freshman standing; or sophomore standing. Credit only granted for: HESI217 or EDCP217. Formerly: EDCP217.

Introduction to leadership theories, concepts, and skills. Completion of personal and leadership self-assessments, values exploration, and small group application.

Students must pay a $32 materials fee.

0201	Nancy Camarillo TuTh 2:00pm - 3:15pm	Seats (Total: 25) CCC 1115

0301	Michael Brick MW 11:00am - 12:15pm	Seats (Total: 25) TWS 0236
FC01	Michael Goodman TuTh 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 25) EDU 2119
FC02	Michael Goodman MW 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 25) JMZ 2120

HESI310 **Transfer2Terp Learning Community: Applying Your Strengths at the University of Maryland and Beyond**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Priority will be given to students transferring from Maryland Community Colleges; and permission of EDUC-Counseling, Higher Education and Special Education department.

Students will identify their strengths and learn how to apply them both in and outside of the classroom. Students will work side by side with the faculty and staff in the Adele H. Stamp Student Union to learn about their strengths while applying them to leadership positions.

0101	Cori Carfagno MW 11:00am - 12:15pm	Seats (Total: 16) SSU 0110
0201	Susan Canady TuTh 12:30pm - 1:45pm	Seats (Total: 16) SSU 0110
0301	Casey Lukszo W 4:30pm - 7:00pm	Seats (Total: 16) SSU 0110

HESI315 **Student Leadership in Groups and Organizations**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Recommended: HESI217. Credit only granted for: HESI315 or EDCP315. Formerly: EDCP315.

Acquiring and integrating leadership knowledge within group and organizational contexts so that students can navigate organizational environments and apply leadership in diverse communities of practice and career contexts.

Students must pay a $15 materials fee.

0301	Nancy Camarillo MW 12:45pm - 2:00pm	Seats (Total: 19) ARC 1125
	Department permission required. This section is restricted to students who have completed EDCP217 or HESI217 or who have been admitted to the Minor in Leadership Studies. Email leadershipstudies@umd.edu for permission to enroll.	
0501	Anne Spear TuTh 2:00pm - 3:15pm	Seats (Total: 25) TWS 1321

HESI318D **Applied Contextual Leadership; Greek Community Dialogues**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Course will utilize experiential learning opportunities to develop and apply the knowledge and skills of leadership into specific contexts of leadership practice.

Student must be on a Greek governing council executive board to enroll. They can contact the instructor at msupple@ umd.edu for more information about registering.

0101	Matthew Supple, Lindsey Templeton Th 4:00pm - 7:00pm	Seats (Total: 30) JMZ 3205

HESI318J **Applied Contextual Leadership; Leadership and Sports**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Course will utilize experiential learning opportunities to develop and apply the knowledge and skills of leadership into specific contexts of leadership practice.

0101	Terry Zacker TuTh 12:30pm - 1:45pm	Seats (Total: 25) PLS 1117

HESI318M **Applied Contextual Leadership; Leadership and Education**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Course will utilize experiential learning opportunities to develop and apply the knowledge and skills of leadership into specific contexts of leadership practice.

This course will explore public education policy in the United States, including historical context, the achievement gap, school funding, standardized testing, and alternatives to the current public education system. It will also explore the meaning of leadership in an educational context and advocacy for change within this context. All students enrolled in the course must commit six hours per week of the semester to work with the America Reads, America Counts, or Partners in Print program and must receive permission to enroll by contacting Alison Barlow at abarlow@umd.edu Visit www.arac.umd.edu for more information about AR*AC*PNP programs.

0101	Alison Barlow Class time/details on ELMs	Seats (Total: 20) ONLINE

HESI318N **Applied Contextual Leadership; Leadership in Collaborative Learning Groups**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Course will utilize experiential learning opportunities to develop and apply the knowledge and skills of leadership into specific contexts of leadership practice.

Restricted to students selected to participate in the Guided Study Sessions through the Counseling Center.

0101	Danielle Pafe Th 3:30pm - 4:45pm Contact instructor or department for details.	Seats (Total: 20) ASY 3217
0201	Danielle Pafe W 5:00pm - 6:15pm Contact instructor or department for details.	Seats (Total: 20) KEY 0121

HESI318T **Applied Contextual Leadership; Foundations and Applications of Adventure Leadership Instruction**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Course will utilize experiential learning opportunities to develop and apply the knowledge and skills of leadership into specific contexts of leadership practice.

Permission of Instructor. Contact Amanda Even (ameven@umd.edu) to arrange an interview. This course is designed to help students develop the necessary leadership skills for leading participants and groups in various adventure recreation activities. The course will focus on developing technical skills, leadership abilities, judgement and decision-making abilities, and overall knowledge of best practices for recreating in the natural environment.

0101	Amanda Preperato	Seats (Total: 8)
	W 6:00pm - 9:00pm	ERC B0170E

HESI320 **Social Action Seminar**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Prerequisite: HESI217. Restriction: Limited to Minor in Leadership Studies students.

The use of leadership theories to inform the practice of addressing social issues in society, on campus, or within the surrounding community. Students will: identify a current and compelling social issue; explore the historical, social, and political aspects of social issues; identify and select applicable leadership theories to confront the social issue; create and develop a plan that integrates leadership theories and the social issue; and implement and evaluate the overall social action project.

0101	Courtney Holder	Seats (Total: 15)
	Class time/details on ELMs Contact instructor or department for details.	ONLINE

HESI417 **Advanced Leadership Seminar**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: HESI217; or students who have taken courses with comparable content may contact the department. Restriction: Permission of EDUC-Counseling, Higher Education and Special Education department. Credit only granted for: EDCP417 or HESI417.

Students will analyze and synthesize the concept of leadership using cultural, ethical, sociological, historical perspectives. Exploration and reflection of personal values, decision making, in-depth analysis on various leadership activities. Theories will be emphasized.

0101	Craig Slack	Seats (Total: 15)
	F 9:00am - 11:45am	EDU 1315

HESI418D **Special Topics in Leadership; Leadership and Ethnicity**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DVCC

The special topics and leadership course will address a single topic related to leadership through the semester. In-depth study and analysis on the topic will be the basis for the course. Topics include gender and leadership, ethics and leadership, and culture and leadership. Leadership will serve as the foundation in the course.

0101	Brandon Dula	Seats (Total: 25)
	TuTh 2:00pm - 3:15pm	TWS 1320

HESI418F **Special Topics in Leadership; Jewish Leadership**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DVCC

The special topics and leadership course will address a single topic related to leadership through the semester. In-depth study and analysis on the topic will be the basis for the course. Topics include gender and leadership, ethics and leadership, and culture and leadership. Leadership will serve as the foundation in the course.

0101	Ari Israel	Seats (Total: 35)
	M 2:00pm - 4:45pm	TYD 0102

HESI671 **Intergroup Dialogue Facilitation Practicum**

Credits: 3 | Grading Method: Regular

Prerequisite: EDCP616 and HESI771; or permission of instructor. Restriction: Limited to HESI Student Affairs Concentration students only. Credit only granted for: EDCP671 or HESI671. Formerly: EDCP671.

Developing knowledge and skills for facilitating intergroup dialogues. Using the principles and content of intergroup dialogues to create scenarios for the practice of listening, understanding, and taking action under theories of social justice.

0101	Bridget Kelly	Seats (Total: 10)
	Th 4:15pm - 7:00pm	JMZ 1226

HESP Hearing and Speech Sciences Fall 2018

HESP120 **Introduction to Linguistics**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS, DSSP

Additional information: HESP120 is required for HESP majors. HESP majors may not substitute LING200.

An introduction to the scientific study of natural language with focus on the basic concepts of phonology, syntax, semantics and pragmatics, with subsequent attention to the applied aspects of linguistic principles.

0101	Karen Mulak TuTh 12:30pm - 1:45pm	Seats (Total: 45) VMH 1207
FC01	Michelle Morrison MW 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 40) SQH 1119

HESP150 **Introduction to Language Science**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Language science is the scientific study of how humans acquire, use, comprehend, and produce language. Most people in all societies learn and use their native language or languages with apparent ease - but don't be fooled: languages are highly complex, and speaking and understanding language requires some amazing feats of mental acrobatics. Thus there are many opportunities for difficulties with language, which is the focus of our field. Understanding difficulties with speech, language, and hearing require first understanding how processing works when language is successful - the psychological (behavioral) and neurobiological (brain) factors that enable people to learn and use language despite its intricacies, the structure and properties of language itself, and how knowledge of language is acquired, represented, and processed in the mind and brain.

PBH1	Alexandra Boo Th 6:30pm - 9:00pm *Restricted to students in the Hearing and Speech Sciences In The Evening program.*	Seats (Total: 50) ASY 2309

HESP202 **Introduction to Hearing and Speech Sciences**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An introduction to communication sciences and disorders; a survey of th bases of normal speech, language and hearing ability, major forms of communicative disorders and their treatment.

0101	Kathleen Skinker TuTh 11:00am - 12:15pm	Seats (Total: 115) LEF 2205

HESP214 **Should I Buy That?:Comparing Media Claims with Scientific Evidence from Brain & Behavior Research**

Credits: 3 Grading Method: Regular General Education: DSHS, SCIS

Millions of dollars are spent each year advertising products that "make you smarter" or "learn a foreign language faster" or "increase your memory", etc. But are these statements true? Can they be backed up? Learn how to critically evaluate media claims of new discoveries in brain and behavior. Read popular-press articles, listen to podcast episodes and review commercial products that claim to be based on science. Then, learn how to find out if the claims are true.

0101	Jared Novick TuTh 11:00am - 12:15pm	Seats (Total: 45) BPS 1236
FC01	Katie Von Holzen TuTh 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 50) TYD 2109
FC02	Alison Robey TuTh 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 40) KEY 1117

HESP300 **Introduction to Psycholinguistics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in HESP202; or permission of BSOS-Hearing & Speech Sciences department. Recommended: HESP120.

An introduction to current theories of language and an investigation of their relationship to human communication behavior. Survey of the experimental literature relating to this question.

0101	Jared Novick TuTh 2:00pm - 3:15pm	Seats (Total: 45) SKN 0104

HESP305 **Anatomy and Physiology of the Speech Mechanism**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in HESP202; or permission of BSOS-Hearing & Speech Sciences department.

Anatomy, physiology, and neurology of speech mechanism.

0101	Tammatha O'Brien TuTh 11:00am - 12:15pm	Seats (Total: 52) SYM 0200

HESP386 **Experiential Learning**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail

Restriction: Junior standing or higher; and permission of BSOS-Hearing & Speech Sciences department.

Students will have the opportunity observe and/or participate in therapy activities provided by a speech-language pathologist or audiologist in this experiential learning course.

Contact department for information to register for this course.

HESP388 **Undergraduate Research Externship**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Off-campus research internship with departmental affiliates at National Institutes of Health and regional universities. Contact department chairman for openings and descriptions of eligible placements.

Contact department for information to register for this course.

HESP389 **LEAP Classroom Internship**

Credits: 1-3 Grading Method: Regular

Participation in a language-based, literacy-rich preschool classroom fo children with speech-language disorders. Students will learn behavior management techniques, curriculum planning and implementation, facilitation of play among children, data collection and teaching srategies.

Contact department for information to register for this course.

HESP400 **Speech and Language Development in Children**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in HESP300; or permission of BSOS-Hearing & Speech Sciences department. Recommended: LING200 or HESP120. Restriction: Must be in Hearing and Speech Sciences program; or permission of BSOS-Hearing & Speech Sciences department.

Analysis of the normal processes of speech and language development in children.

0101	Yi Ting Huang TuTh 9:30am - 10:45am	Seats (Total: 45) TYD 0117
PBH1	Tonya Williams-Walker Tu 6:30pm - 9:00pm *Restricted to students in the Hearing and Speech Sciences In The Evening program.*	Seats (Total: 50) ASY 2309

HESP403 **Introduction to Phonetic Science**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in HESP305; or permission of BSOS-Hearing & Speech Sciences department. Restriction: Must be in Hearing and Speech Sciences program; or permission of BSOS-Hearing & Speech Sciences department.

An introduction to physiological, acoustic and perceptual phonetics; broad and narrow phonetic transcription; current models of speech production and perception.

0101	Margaritis Fourakis TuTh 9:30am - 10:45am	Seats (Total: 45) TYD 0102

HESP411 **Introduction to Audiology**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in HESP311; or permission of BSOS-Hearing & Speech Sciences department. Restriction: Must be in Hearing and Speech Sciences program; or permission of BSOS-Hearing & Speech Sciences department.

An introduction to the field of audiology. Evaluation and remediation of hearing handicaps.

0101	Sarah Sohns TuTh 12:30pm - 1:45pm	Seats (Total: 50) ARC 1101
PBH1	Christopher Zalewski Tu 6:00pm - 8:30pm *Restricted to students in the Hearing and Speech Sciences In The Evening program.*	Seats (Total: 25) LEF 0135

HESP413 **Aural Rehabilitation/Habilitation**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: HESP411. Restriction: Sophomore standing or higher.

The fundamental aspects of aural rehabilitation therapy for both adults and children are introduced to students. Class time will consist of lectures, discussions, and hands-on activities.

PBH1	Gavin Mahoney	Seats (Total: 25)
	Th 6:30pm - 9:00pm	ASY 3219
	Restricted to students in the Hearing and Speech Sciences In The Evening program.	

HESP415 **Principles and Methods in Speech-Language Pathology**

Credits: 2 Grading Method: Regular

Prerequisite: HESP400. Restriction: Must be in Hearing and Speech Sciences program.

The principles and methods required to provide treatment of speech and language disorders to children and adults. Topics include writing goals and objectives, programming,teaching strategies,session design, data collection, behavior modification and counseling.

0101	Eusabia Mont	Seats (Total: 35)
	M 1:00pm - 2:40pm	ASY 3211

HESP416 **Principles and Methods in Audiology**

Credits: 2 Grading Method: Regular

Prerequisite: Minimum grade of C- in HESP411. Restriction: Must be in Hearing and Speech Sciences program; and permission of BSOS-Hearing & Speech Sciences department.

Relate previous knowledge of anatomy/physiology and pathologies of the auditory system and integrate this information into clinical application.

0101	Lisa Rickard	Seats (Total: 25)
	Th 2:00pm - 3:40pm	EDU 3233

HESP422 **Neurological Bases of Human Communication**

Credits: 3 Grading Method: Regular

Prerequisite: HESP305; or permission of instructor. Credit only granted for: HESP498 or HESP422.

Basic neurology as it pertains to anatomy and physiology substrates of speech and language.

0101	Kristin Slawson	Seats (Total: 55)
	TuTh 12:30pm - 1:45pm	TWS 1100

HESP469 **Honor Thesis Research**

Credits: 1-3 Grading Method: Regular

Student will develop thesis proposal, conduct research, analyze results develop and defend final written document.

Contact department for information to register for this course.

HESP469A **Honor Thesis Research**

Credits: 1-3 Grading Method: Regular

Student will develop thesis proposal, conduct research, analyze results develop and defend final written document.

Contact department for information to register for this course.

HESP469B **Honor Thesis Research**

Credits: 1-3 Grading Method: Regular

Student will develop thesis proposal, conduct research, analyze results develop and defend final written document.

Contact department for information to register for this course.

HESP498 **Seminar**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected topics in human communication and its disorders.

Contact department for information to register for this course.

HESP498D **Seminar; Disorders of Speech and Swallowing**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected topics in human communication and its disorders.

0101	Kathleen Skinker	Seats (Total: 40)
	Tu 2:00pm - 4:30pm	TYD 1118

HESP499 **Independent Study; Topics in the Hearing and Speech Sciences**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail

A directed study of selected topics pertaining to human communication and its disorders.

Contact department for information to register for this course.

HESP499H **Independent Study**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

A directed study of selected topics pertaining to human communication and its disorders.

Contact department for information to register for this course.

HESP600 **Instrumentation in Hearing and Speech Sciences**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in Clinical Audiology: Au.D. or Ph.D. (Doctoral) program; and permission of BSOS-Hearing & Speech Sciences department. Or permission of instructor.

Types and principles of operation of electronic equipment used in the hearing and speech sciences.

Offered Fall only.

0101	Kristina Milvae	Seats (Total: 10)
	W 3:30pm - 6:00pm	SQH 1125

HESP603 **Seminar in Cultural and Linguistic Diversity in Communication Disorders**

Credits: 1 Grading Method: Regular

Restriction: Must be in Hearing and Speech Sciences: M.A. (Master's) program; or permission of Instructor. Additional information: Course meets over four semesters for the duration of the Masters of Speech-Language Pathology program.

Overview of cultural and linguistic diversity (CLD) in general, and the impact of CLD on communication, communication disorders, and the professional practice of Speech-Language Pathology

0101	Eusabia Mont	Seats (Total: 25)
	F 1:00pm - 2:30pm	LEF 0135

HESP606 **Basic Hearing Measurements**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: HESP411; or students who have taken courses with comparable content may contact the department. Restriction: Must be in Clinical Audiology: Au.D. or Ph.D. (Doctoral) program; and permission of BSOS-Hearing & Speech Sciences department. Or permission of instructor.

Theoretical principles, methodology, and interpretation of routine audiometric tests, including pure tone, speech, and acoustic immittance measures. Modification of procedures for special populations. Equipment calibration and mass hearing screening programs.

0101	Sandra Gordon-Salant	Seats (Total: 30)
	Th 3:30pm - 6:00pm	LEF 0135

HESP610 **Language Disorders in Adults**

Credits: 2 Grading Method: Regular, Audit

Restriction: Must be in Hearing and Speech Sciences: M.A. (Master's) program; or permission of instructor.

Etiology, diagnosis and management of language problems of adults associated with aging, brain injury and degenerative conditions.

0101	Yasmeen Shah	Seats (Total: 30)
	Meets October 14, 2018 - December 10, 2018	
	Tu 2:00pm - 5:20pm	LEF 0135

HESP613 **Autism Spectrum Disorders**

Credits: 2 Grading Method: Regular, Audit

Restriction: Must be in Hearing and Speech Sciences: M.A. (Master's) program; or permission of instructor. Credit only granted for: HESP639A or HESP613. Formerly: HESP639A.

Etiology, diagnosis and management of autism spectrum disorders.

0101	Vivian Sisskin	Seats (Total: 34)
	Meets October 14, 2018 - December 10, 2018	
	Tu 9:30am - 12:50pm	LEF 0135

HESP616 **Language Disorders in the Pre-school Age**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Prerequisite: HESP400; or students who have taken courses with comparable content may contact the department. Restriction: Must be in Hearing and Speech Sciences: M.A. (Master's) program; and permission of BSOS-Hearing & Speech Sciences department. Or permission of instructor.

Theoretical, empirical and clinical perspectives on language disorders in children from infancy through pre-school age.

0101	Nan Ratner	Seats (Total: 20)
	Meets August 27, 2018 - October 13, 2018	
	Tu 2:00pm - 5:20pm	LEF 0135

HESP624 **Voice Disorders**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Restriction: Permission of BSOS-Hearing & Speech Sciences department; or must be in Hearing and Speech Sciences: M.A. (Master's) program.

Etiological characteristics, assessment and treatment of phonatory disorders in children and adults.

0101	Nancy Solomon	Seats (Total: 20)
	Meets August 27, 2018 - October 13, 2018	
	W 6:15pm - 9:00pm	LEF 1220
	Class time/details on ELMs	ONLINE

HESP626 **Language disorders in school-aged children and adolescents**

Credits: 2 Grading Method: Regular, Audit

Etiology, assessment and treatment of communication and learning problems in school age children and adolescents

0101	Nan Ratner	Seats (Total: 20)
	Meets October 14, 2018 - December 10, 2018	
	Tu 4:00pm - 7:20pm	LEF 1221

HESP630 **Electrophysiological Measurements**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: HESP606. Restriction: Must be in Clinical Audiology: Au.D. or Ph.D. (Doctoral) program; and permission of BSOS-Hearing & Speech Sciences department. Or permission of instructor.

Principles and techniques of physiological and electrophysiological measures of the audio-vestibular mechanisms.

Offered fall only.

0101	Samira Anderson W 3:30pm - 6:00pm	Seats (Total: 10) JMZ 1215

HESP638 **Research Practicum**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Analysis, synthesis and integration of knowledge related to current research or clinical issues in human communication and its related disorders.

Contact department for information to register for this course.

HESP639D **Special Topics in Hearing and Speech Sciences**

Credits: 2 Grading Method: Regular, Audit

Intensive coverage of selected topics of current interest.

0101	Yvette McCoy M 5:00pm - 6:40pm	Seats (Total: 20) KEY 0124

HESP645 **Pediatric Audiology**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: HESP606. Restriction: Must be in Clinical Audiology: Au.D. or Ph.D. (Doctoral) program; and permission of BSOS-Hearing & Speech Sciences department. Or permission of instructor.

Evaluation and treatement of hearing-impaired children.

Offered Fall only.

0101	Hannah Willison M 6:00pm - 8:30pm	Seats (Total: 10) LEF 0135

HESP648A **Clinical Practice in Speech; Diagnostic Procedures**

(Perm req)

Credits: 1 Grading Method: Regular

Supervised training in the application of clinical methods in the diagnosis and treatment of speech disorders.

1901	Colleen Worthington Th 9:00am - 12:00pm	Seats (Total: 5) LEF 0135	 Lab
2101	Vivian Sisskin Th 9:00am - 12:00pm	Seats (Total: 6) LEF 0135	 Lab
2301	Eliza Thompson Th 9:00am - 12:00pm	Seats (Total: 1) LEF 0135	 Lab
2701	Jose Ortiz Th 9:00am - 12:00pm	Seats (Total: 5) LEF 0135	 Lab
2801	Eusabia Mont Th 9:00am - 12:00pm	Seats (Total: 6) LEF 0135	 Lab
3601	Kristin Slawson Th 9:00am - 12:00pm	Seats (Total: 6) LEF 0135	 Lab
3701	Kathryn Dow-Burger Th 9:00am - 12:00pm	Seats (Total: 6) LEF 0135	 Lab

HESP648B **Clinical Practice in Speech; Therapeutic Procedures**

(Perm req)

Credits: 1-2 Grading Method: Regular

Supervised training in the application of clinical methods in the diagnosis and treatment of speech disorders.

1901	Colleen Worthington Th 12:00pm - 1:00pm	Seats (Total: 5) LEF 0135	 Lab
2101	Vivian Sisskin Th 12:00pm - 1:00pm	Seats (Total: 6) LEF 0135	 Lab
2301	Eliza Thompson Th 12:00pm - 1:00pm	Seats (Total: 1) LEF 0135	 Lab

2701	Jose Ortiz	Seats (Total: 5)	
	Th 12:00pm - 1:00pm	LEF 0135	Lab
	F 11:00am - 11:50am	LEF 0135	Lab
2801	Eusabia Mont	Seats (Total: 6)	
	Th 12:00pm - 1:00pm	LEF 0135	Lab
3601	Kristin Slawson	Seats (Total: 6)	
	Th 12:00pm - 1:00pm	LEF 0135	Lab
3701	Kathryn Dow-Burger	Seats (Total: 6)	
	Th 12:00pm - 1:00pm	LEF 0135	Lab

HESP649A **Clinical Practice in Audiology; Diagnostic Audiology**

(Perm req)

Credits: 1-2 Grading Method: Regular

Supervised training in the application of clinical methods in the diagnosis and treatment of hearing disorders.

Contact department for information to register for this course.

HESP649B **Clinical Practice in Audiology; Aural Rehabilitation**

(Perm req)

Credits: 1-2 Grading Method: Regular

Supervised training in the application of clinical methods in the diagnosis and treatment of hearing disorders.

Contact department for information to register for this course.

HESP700 **Hearing Aids**

Credits: 3 Grading Method: Regular, Audit

Principles, methods and procedures for selection, fitting, calibration and management of amplification systems for hearing-impaired children and adults.

0101	Eric Hoover	Seats (Total: 10)	
	Tu 5:00pm - 7:30pm	LEF 0104	

HESP702 **Diagnostic Procedures in Speech-Language Pathology**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Restriction: Must be in Hearing and Speech Sciences: M.A. (Master's) program; and permission of BSOS-Hearing & Speech Sciences department. Or permission of instructor.

Diagnostic tools and methods in the analysis of speech-language disorders in children and adults.

0101	Colleen Worthington	Seats (Total: 30)
	Meets August 27, 2018 - October 13, 2018	
	Tu 9:30am - 12:50pm	LEF 0135

HESP708 **Independent Study**

(Perm req)

Credits: 1-6 Grading Method: Regular, Audit

Individual research projects under guidance of a faculty member.

Contact department for information to register for this course.

HESP710 **Industrial and Environmental Noise Problems**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of instructor.

Evaluation and control of noise hazards. Effects of noise on man. Medico-legal aspects of noise-induced hearing impairment.

0101	Samira Anderson	Seats (Total: 20)
	Tu 5:00pm - 7:30pm	LEF 1222

HESP712 **Cochlear Implants and Other Implantable Technologies**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have completed or be concurrently enrolled in HESP700, HESP701, and HESP722; or permission of instructor.

Comprehensive presentation of cochlear implant design and processing, medical/surgical aspects, evaluation, programming, outcomes in children and adults, and post stimulation care. The role of the audiologist as a member of the cochlear implant team will be emphasized. Current and emerging trends in other implantable technologies also will be covered.

0101	Nicole Nguyen	Seats (Total: 10)
	M 2:00pm - 4:30pm	LEF 0104A

HESP722 **Psychoacoutics**

Credits: 3 Grading Method: Regular, Audit

Auditory perception and auditory processing in normal and impaired hearing.

0101	Olga Stakhovskaya Tu 3:30pm - 6:00pm	Seats (Total: 15) JMZ 1224

HESP728 **Advanced Clinical Practice in Speech; Advanced Graduate Laboratory Practicum in Speech-Language Pathology**

(Perm req)

Credits: 1-8 Grading Method: Regular

Clinical internship in selected off-campus facilities.

Contact department for information to register for this course.

HESP729 **Advanced Clinical Practice in Audiology; Advanced Graduate Laboratory Practicum in Audiology**

(Perm req)

Credits: 1-8 Grading Method: Regular

Clinical internship in selected off-campus facilities.

1301	Nicole Nguyen TBA Contact instructor or department for details.	Seats (Total: 10) LEF 0135
3201	Nicole Nguyen Contact instructor or department for details.	Seats (Total: 20)

HESP788 **Graduate Research Externship**

Credits: 1-3 Grading Method: Regular, Audit

Off-campus research internship with departmental affiliates at National Institutes of Health and other regional universities. Contact department chairman for available placements, requirements and openings.

Contact department for information to register for this course.

HESP799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

HESP829 **Clinical Internship Residency**

Credits: 1-9 Grading Method: Regular, Audit

Off-Campus, full-time (30-40 hours/week) clinical externship in Audiology at regional and national institutions.

1301	Nicole Nguyen Contact instructor or department for details.	Seats (Total: 30)
3201	Nicole Nguyen Contact instructor or department for details.	Seats (Total: 10)

HESP849 **Capstone Research Project I**

Credits: 2 Grading Method: Regular

First of two-course sequence leading to the final research requirement for the Doctor of Audiology (Au.D.) degree; involves individual study and/or supervised lab work with mentor, preparation of research proposal (including IRB protocol if required), and attendance at Capstone Research Project Workshop.

Contact department for information to register for this course.

HESP859 **Capstone Research Project II**

Credits: 1-2 Grading Method: Regular

Second of two-course sequence leading to the final research requirement for the Doctor of Audiology (Au.D.) degree; involves final data collection, analysis and presentation of results or completion of scholarly paper under the direction of the faculty mentor.

Contact department for information to register for this course.

HESP889 **Doctoral Candidacy Research**

Credits: 1-3 Grading Method: Regular

Doctoral candidacy paper research

Contact department for information to register for this course.

HESP898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

HESP899 **Doctoral Dissertation Research**

(Perm req) Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

HHUM Honors Humanities Fall 2018

HHUM105 Honors Humanities: Introduction to the Arts and Humanities

Credits: 3 Grading Method: Regular CORE: HL General Education: DSHU

Restriction: Must be an entering freshmen in the Honors Humanities Program. Credit only granted for: ARHU105 or HHUM105. Formerly: ARHU105.

Introduction to the university, the different fields of the arts and humanities, and the history of how the university and the humanities have evolved across the world from ancient times to the present. Primary emphasis on reading and discussion of literary artifacts to assess the meaning and social status of the arts and humanities in the past and their personal and social value for the future.

0101	Gregory Staley Tu 3:30pm - 4:45pm Th 3:30pm - 4:45pm	Seats (Total: 17) PLS 1140 ESJ 2309	Discussion
0102	Gregory Staley Tu 3:30pm - 4:45pm Th 3:30pm - 4:45pm	Seats (Total: 17) PLS 1140 ANA 0120	Discussion
0103	Gregory Staley Tu 3:30pm - 4:45pm Th 12:30pm - 1:45pm	Seats (Total: 17) PLS 1140 ANA 0120	Discussion
0104	Gregory Staley Tu 3:30pm - 4:45pm Th 2:00pm - 3:15pm	Seats (Total: 17) PLS 1140 ANA 0120	Discussion

HHUM205 Second Year Seminar in Honors Humanities

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HO General Education: DVUP

Credit only granted for: ARHU205 or HHUM205. Formerly: ARHU205.

Seminar on basic issues and methodologies in the humanities and arts.

0101	Colleen Ho MW 1:00pm - 2:15pm *The Mongols.*	Seats (Total: 20) TLF 2108	

0102	Luka Arsenjuk TuTh 3:30pm - 4:45pm *Cinema and Globalization.*	Seats (Total: 20) SYM 0209
0103	Kathleen Spanos MW 3:30pm - 4:45pm *Dancing in the World.*	Seats (Total: 20) PAC 3732

HHUM328 **Internship in Honors Humanities**

Credits: 1-3 Grading Method: Regular

Supervised service-learning in Honors Humanities.

0101	Yvonne Slosarski Contact instructor or department for details.	Seats (Total: 12)

HHUM329 **Undergraduate Teaching Assistantship**

Credits: 1-3 Grading Method: Regular

Supervised pedagogical service-learning in the Honors Humanities curriculum.

0101	Gregory Staley Contact instructor or department for details.	Seats (Total: 8)

HISP Historic Preservation Fall 2018

HISP600 **History, Theory, and Practice of Historic Preservation**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of ARCH-Historic Preservation Program.

An introduction to history, theory and practice of historic preservation covered through readings, discussions, presentations, class projects, and field trips.

0101	John Sprinkle Th 7:00pm - 9:40pm	Seats (Total: 20) ARC 1117

HISP611 **Historical Research Methods**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of ARCH-Historic Preservation Program. Credit only granted for: HISP610 or HISP611.

Research methods used by professional historic preservationists to identify and record historic structures and sites. Emphasizes inter/multidisciplinary nature of contemporary preservation practice using archival and ethnographic evidence as a basis for establishing significance.

Department permission required.

0101	Douglas McElrath	Seats (Total: 15)
	W 7:00pm - 9:40pm	ARC 1117

HISP619L **Special Topics in Historic Preservation; Vernacular Architecture Lab**

(Perm req)

Credits: 1

Grading Method: Regular, Audit

Technical aspects of preservation taught by practitioners whose expertise are of special benefit to certificate students.

0101	Dennis Pogue	Seats (Total: 15)
	Contact instructor or department for details.	

HISP629 **Independent Studies in Historic Preservation**

Credits: 1-3

Grading Method: Regular, Audit

Individual Instruction course.

0101	Dennis Pogue	Seats (Total: 1)
	Contact instructor or department for details.	

HISP635 **Social and Ethnic Issues in Historic Preservation Practice**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: Permission of ARCH-Historic Preservation Program. Credit only granted for: HISP628E or HISP635. Formerly: HISP628E.

This seminar course examines the broader social and ethnic dimensions o historic preservation practice that have impacted the field since the "culture wars" of the 1990's. Through weekly case studies of local, international sites, students will explore these issues and apply newly emerging methodologies to their final case study project.

0101	Jeremy Wells	Seats (Total: 3)
	Contact instructor or department for details.	

HISP650 **Historic Preservation Studio Workshop**

(Perm req)

Credits: 6 Grading Method: Regular, Audit

Prerequisite: HISP600; and permission of ARCH-Historic Preservation Program. Restriction: Must be in a major in ARCH-Historic Preservation Program.

Students carry out a group preservation project in a local community, from inception and problem formulation through completion. Guided carefully by a faculty team, students will conduct research, interact with communities, perform analyses, and propose solutions for an issue or problem of direct relevance to a local community and client group.

Department permission required.

0101	Jeremy Wells	Seats (Total: 15)
	TuTh 4:00pm - 6:40pm	ARC 1117

HISP655 **American Vernacular Architecture**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of ARCH-Historic Preservation Program. Credit only granted for: HISP655 or HISP619V. Formerly: HISP619V.

History, theory, and practice of American vernacular architecture including a review of common building technologies, structure, and style, and focusing on methods and approaches for recording, documenting and analyzing these historic resources.

Prerequisite: permission of department. Class will meet some sessions at Bostwick House.

0101	Dennis Pogue	Seats (Total: 15)
	Tu 7:00pm - 9:40pm	ARC 1117

HISP660 **Internship in Historic Preservation**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of ARCH-Historic Preservation Program. Formerly: HISP619.

Students will secure a summer internship with an organization engaged in historic preservation work (this can be a public agency, nonprofit, or private firm). The students will formulate a plan of work and a series of pedagogical goals to satisfy both the practical needs of the project and the academic requirements for the course.

0101	Dennis Pogue	Seats (Total: 10)
	Contact instructor or department for details.	

HISP680 **Preservation Economics**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of ARCH-Historic Preservation Program. Credit only granted for: HISP619N or HISP680. Formerly: HISP619N.

Students are introduced to a range of economic theories, methods, and issues that must be considered in the practice of historic preservation. Case studies related to community economic development, adaptive reuse, tax credit programs, project finance, and land use will be presented.

0101	Sara Hayden	Seats (Total: 15)
	M 7:00pm - 9:40pm	ARC 1117

HISP701 **Certificate Portfolio Project**

(Perm req)

Credits: 1 Grading Method: Regular, Audit

Prerequisite: Permission of ARCH-Historic Preservation Program.

Students will gather samples of their work and craft a synthetic statement on their experiences in their HISP certificate courses (for example, picking up on themes such as community involvement, diversity of practice, affordable housing, or sustainability), and the ways in which they have integrated historic preservation into their thinking and practice in their home discipline.

Department permission required.

0101	Dennis Pogue	Seats (Total: 10)
	Contact instructor or department for details.	

HISP710 **Final Project in Historic Preservation I**

(Perm req)

Credits: 1 Grading Method: Regular, Audit

Credit only granted for: HISP700 or HISP710. Formerly: HISP700.

An independent, applied research project investigating the preservation of a particular site or a specialized issue in historic preservation. This is part one of a two-semester sequence and involves developing the project proposal and bibliography.

Department permission required.

0101	Dennis Pogue	Seats (Total: 10)
	W 4:30pm - 6:00pm	ARC 1117

HISP711 **Final Project in Historic Preservation II**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Credit only granted for: HISP700 or HISP711. Formerly: HISP700.

An independent, applied research project invesitgating the preservation of a particular site or a specialized issue in historic preservation. This is part two of a two semester sequence and involves project research and writing.

Department permission required.

0101	Dennis Pogue	Seats (Total: 10)
	Contact instructor or department for details.	

HIST History Fall 2018

HIST106 **American Jewish Experience**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SH General Education: DSHS, DVUP

Also offered as: JWST141. Credit only granted for: HIST106 or JWST141.

History of the Jews in America from colonial times to the present. Emphasis on the waves of migration from Germany and Eastern Europe; the changing nature of the American Jewish community and its participation in American social, economic, and political life.

0101	Marsha Rozenblit	Seats (Total: 40)
	TuTh 12:30pm - 1:45pm	KEY 0116

HIST110 **The Ancient World**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HO General Education: DSHU

Interpretation of select literature and art of the ancient Mediterranean world with a view to illuminating the antecedents of modern culture; religion and myth in the ancient Near East; Greek philosophical, scientific, and literary invention; and the Roman tradition in politics and administration.

0101	Elizabeth Conner TuTh 9:30am - 10:20am Th 11:00am - 11:50am	Seats (Total: 20) SYM 0200 KEY 0117	Discussion
0102	Elizabeth Conner TuTh 9:30am - 10:20am Th 12:30pm - 1:20pm	Seats (Total: 20) SYM 0200 KEY 0117	Discussion
0103	Elizabeth Conner TuTh 9:30am - 10:20am F 11:00am - 11:50am	Seats (Total: 20) SYM 0200 KEY 0117	Discussion
0104	Elizabeth Conner TuTh 9:30am - 10:20am F 12:00pm - 12:50pm	Seats (Total: 20) SYM 0200 KEY 0117	Discussion

HIST111 **The Medieval World**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: SH	General Education: DSHS, DVUP

The development of Europe in the Middle Ages; the role of religious values in shaping new social, economic, and political institutions; medieval literature, art and architecture.

0101	Colleen Ho MW 10:00am - 10:50am M 11:00am - 11:50am	Seats (Total: 20) KEY 0106 KEY 0117	Discussion
0102	Colleen Ho MW 10:00am - 10:50am M 12:00pm - 12:50pm	Seats (Total: 20) KEY 0106 KEY 0117	Discussion
0103	Colleen Ho MW 10:00am - 10:50am W 11:00am - 11:50am	Seats (Total: 20) KEY 0106 KEY 0117	Discussion
0104	Colleen Ho MW 10:00am - 10:50am W 12:00pm - 12:50pm	Seats (Total: 20) KEY 0106 KEY 0117	Discussion

0105	Colleen Ho MW 10:00am - 10:50am W 1:00pm - 1:50pm	Seats (Total: 20) KEY 0106 KEY 0117	Discussion
0106	Colleen Ho MW 10:00am - 10:50am F 9:00am - 9:50am	Seats (Total: 20) KEY 0106 KEY 0117	Discussion
0107	Colleen Ho MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 20) KEY 0106 KEY 0117	Discussion
0108	Colleen Ho MW 10:00am - 10:50am F 12:00pm - 12:50pm	Seats (Total: 20) KEY 0106 KEY 0100	Discussion

HIST120 **Islamic Civilization**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH, D | General Education: DSHU

Also offered as: RELS120. Credit only granted for: HIST120 or RELS120.

Introduction to society and culture in the Middle East since the advent of Islam: as a personal and communal faith; as artistic and literary highlights of intellectual and cultural life; and as the interplay between politics and religion under the major Islamic regimes.

0101	Antoine Borrut TuTh 9:30am - 10:20am Th 11:00am - 11:50am	Seats (Total: 20) KEY 0106 TLF 1103	Discussion
0102	Antoine Borrut TuTh 9:30am - 10:20am F 10:00am - 10:50am	Seats (Total: 20) KEY 0106 KEY 0100	Discussion
0103	Antoine Borrut TuTh 9:30am - 10:20am F 11:00am - 11:50am	Seats (Total: 20) KEY 0106 KEY 0100	Discussion
0104	Antoine Borrut TuTh 9:30am - 10:20am F 2:00pm - 2:50pm	Seats (Total: 20) KEY 0106 KEY 0100	Discussion

HIST133 **"God Wills It!" The Crusades in Medieval and Modern Perspectives**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: SH	General Education: DSHS, SCIS

Credit only granted for: HIST133, HIST289D, or RELS289D. Formerly: HIST289D.

An examination of the identities and convictions both of the Western Europeans who participated in the Crusades and of the Easterners (Muslim, Christian, and Jewish) whom they encountered in the Holy Land. Focuses on the era of the first four great Crusades, from about 1095 to 1215. Consideration of the cultural impact of these movements on both Western Europe and the Middle East.

Also offered as RELS289D.

0101	Janna Bianchini MW 11:00am - 11:50am W 12:00pm - 12:50pm	Seats (Total: 20) KEY 0106 TLF 1101	Discussion
0102	Janna Bianchini MW 11:00am - 11:50am W 1:00pm - 1:50pm	Seats (Total: 20) KEY 0106 TLF 1101	Discussion
0103	Janna Bianchini MW 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 20) KEY 0106 TLF 1101	Discussion
0104	Janna Bianchini MW 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 20) KEY 0106 TLF 1101	Discussion

HIST134 **Spies, Assassins, Martyrs, and Witches: Famous Trials in American History**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: SH	General Education: DSHU, SCIS

Examination of some of the most famous trials in American history and their enduring hold on the imagination.

0101	Michael Ross TuTh 11:00am - 11:50am Tu 12:30pm - 1:20pm	Seats (Total: 20) KEY 0106 KEY 0117	Discussion
0102	Michael Ross TuTh 11:00am - 11:50am Tu 2:00pm - 2:50pm	Seats (Total: 20) KEY 0106 ASY 3221	Discussion

0103	Michael Ross TuTh 11:00am - 11:50am Th 9:30am - 10:20am	Seats (Total: 20) KEY 0106 TLF 1101	Discussion
0104	Michael Ross TuTh 11:00am - 11:50am Th 12:30pm - 1:20pm	Seats (Total: 20) KEY 0106 TLF 2103	Discussion
0105	Michael Ross TuTh 11:00am - 11:50am Th 2:00pm - 2:50pm	Seats (Total: 20) KEY 0106 TLF 2103	Discussion
0106	Michael Ross TuTh 11:00am - 11:50am F 9:00am - 9:50am	Seats (Total: 20) KEY 0106 TLF 1103	Discussion
0107	Michael Ross TuTh 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 20) KEY 0106 TLF 1103	Discussion
0108	Michael Ross TuTh 11:00am - 11:50am F 12:00pm - 12:50pm	Seats (Total: 20) KEY 0106 TLF 1103	Discussion

HIST134S **Spies, Assassins, Martyrs, and Witches: Famous Trials in American History**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH | General Education: DSHU, SCIS

Examination of some of the most famous trials in American history and their enduring hold on the imagination.

Restricted to students in College Park Scholars-Justice and Legal Thought program.

0201	Michael Ross TuTh 11:00am - 11:50am F 9:00am - 9:50am	Seats (Total: 22) KEY 0106 CBD 1140	Discussion
0202	Michael Ross TuTh 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 22) KEY 0106 CBD 1140	Discussion

0203	Michael Ross TuTh 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 22) KEY 0106 CBD 1140	Discussion

HIST135 **Civil Discourse or Urban Riot: Why Cities Don't (Often) Explode**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH, D | General Education: DSHS, DVUP, SCIS

An examination of the mechanisms that promote peaceful co-existence in urban societies and a discussion of how and why city streets sometimes become violent.

Also offered as JWST289E. Credit granted for HIST135 or JWST289E.

0101	Bernard Cooperman TuTh 11:00am - 11:50am F 9:00am - 9:50am	Seats (Total: 20) ESJ 1224 TLF 1101	Discussion
0102	Bernard Cooperman TuTh 11:00am - 11:50am F 12:00pm - 12:50pm	Seats (Total: 20) ESJ 1224 TLF 1101	Discussion
0103	Bernard Cooperman TuTh 11:00am - 11:50am F 1:00pm - 1:50pm	Seats (Total: 20) ESJ 1224 TLF 1101	Discussion
0104	Bernard Cooperman TuTh 11:00am - 11:50am F 2:00pm - 2:50pm	Seats (Total: 20) ESJ 1224 TLF 1101	Discussion
0105	Bernard Cooperman TuTh 11:00am - 11:50am Th 5:00pm - 5:50pm *This section is restricted to students in Carillon Communities.*	Seats (Total: 20) ESJ 1224 ESJ 1309	Discussion

HIST136 **Moneyland: Business in American Culture**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH | General Education: DSHS, SCIS

Examines the interplay between America's stature as a business society and the public distrust of commerce, big business, and money.

0101	David Sicilia MW 1:00pm - 1:50pm M 10:00am - 10:50am	Seats (Total: 20) ESJ 1202 TLF 1103	Discussion
0102	David Sicilia MW 1:00pm - 1:50pm M 11:00am - 11:50am	Seats (Total: 20) ESJ 1202 TLF 1103	Discussion
0103	David Sicilia MW 1:00pm - 1:50pm W 10:00am - 10:50am	Seats (Total: 20) ESJ 1202 TLF 1103	Discussion
0104	David Sicilia MW 1:00pm - 1:50pm W 11:00am - 11:50am	Seats (Total: 20) ESJ 1202 TLF 1103	Discussion
0105	David Sicilia MW 1:00pm - 1:50pm W 4:00pm - 4:50pm *This section is restricted to students in Carillon Communities.*	Seats (Total: 20) ESJ 1202 KEY 0124	Discussion

HIST143 **Power, Ritual, and Society in Western History**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH | General Education: DSHS, SCIS

Credit only granted for: HIST289F or HIST143. Formerly: HIST289F.

Introduces students to influential works of political thinking, in the Western tradition from classical Antiquity to the present, that treat the relationship between power, ritual, and society. Investigates ritual and its relationships to power, both in reality and the imagination of political thinkers.

0101	Alejandro Caneque TuTh 12:30pm - 1:45pm	Seats (Total: 40) TYD 1132

HIST200 **Interpreting American History: Beginnings to 1877**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH | General Education: DSHS, DSHU

Credit only granted for: HIST156 or HIST200. Formerly: HIST156.

The United States from colonial times to the end of the Civil War. Establishment and development of American institutions.

0101	Robert Chiles MW 1:00pm - 1:50pm W 9:00am - 9:50am	Seats (Total: 20) KEY 0106 KEY 0117	Discussion
0102	Robert Chiles MW 1:00pm - 1:50pm W 10:00am - 10:50am	Seats (Total: 20) KEY 0106 KEY 0117	Discussion
0103	Robert Chiles MW 1:00pm - 1:50pm W 11:00am - 11:50am	Seats (Total: 20) KEY 0106 KEY 0119	Discussion
0104	Robert Chiles MW 1:00pm - 1:50pm W 2:00pm - 2:50pm	Seats (Total: 20) KEY 0106 KEY 0117	Discussion
0105	Robert Chiles MW 1:00pm - 1:50pm F 9:00am - 9:50am	Seats (Total: 20) KEY 0106 KEY 0116	Discussion
0106	Robert Chiles MW 1:00pm - 1:50pm F 10:00am - 10:50am	Seats (Total: 20) KEY 0106 LEF 1222	Discussion
0107	Robert Chiles MW 1:00pm - 1:50pm F 11:00am - 11:50am	Seats (Total: 20) KEY 0106 KEY 0119	Discussion
0108	Robert Chiles MW 1:00pm - 1:50pm F 1:00pm - 1:50pm	Seats (Total: 20) KEY 0106 KEY 0116	Discussion
FC01	Jeffrey Coster TuTh 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 30) KEY 0100	

HIST201 **Interpreting American History: From 1865 to the Present**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH | General Education: DSHS, DSHU, DVUP

Credit only granted for: HIST157 or HIST201. Formerly: HIST157.

The United States from the end of the Civil War to the present. Economic, social, intellectual, and political developments. Rise of industry and emergence of the United States as a world power.

0101	Howard Smead MW 12:00pm - 12:50pm M 9:00am - 9:50am	Seats (Total: 20) KEY 0106 KEY 0100	 Discussion
0102	Howard Smead MW 12:00pm - 12:50pm M 10:00am - 10:50am	Seats (Total: 20) KEY 0106 KEY 0100	 Discussion
0103	Howard Smead MW 12:00pm - 12:50pm M 11:00am - 11:50am	Seats (Total: 20) KEY 0106 KEY 0100	 Discussion
0104	Howard Smead MW 12:00pm - 12:50pm M 1:00pm - 1:50pm	Seats (Total: 20) KEY 0106 KEY 0100	 Discussion
0105	Howard Smead MW 12:00pm - 12:50pm M 2:00pm - 2:50pm	Seats (Total: 20) KEY 0106 KEY 0117	 Discussion
0106	Howard Smead MW 12:00pm - 12:50pm W 9:00am - 9:50am	Seats (Total: 20) KEY 0106 KEY 0100	 Discussion
0107	Howard Smead MW 12:00pm - 12:50pm W 10:00am - 10:50am	Seats (Total: 20) KEY 0106 KEY 0100	 Discussion
0108	Howard Smead MW 12:00pm - 12:50pm W 11:00am - 11:50am	Seats (Total: 20) KEY 0106 KEY 0100	 Discussion
0109	Howard Smead MW 12:00pm - 12:50pm F 9:00am - 9:50am	Seats (Total: 20) KEY 0106 KEY 0100	 Discussion
0110	Howard Smead MW 12:00pm - 12:50pm F 12:00pm - 12:50pm	Seats (Total: 20) KEY 0106 JMZ 2125	 Discussion

0111	Howard Smead MW 12:00pm - 12:50pm F 1:00pm - 1:50pm	Seats (Total: 20) KEY 0106 KEY 0100	 Discussion
0112	Howard Smead MW 12:00pm - 12:50pm F 2:00pm - 2:50pm	Seats (Total: 20) KEY 0106 KEY 0116	 Discussion
0201	Robert Chiles TuTh 12:30pm - 1:20pm Tu 9:30am - 10:20am	Seats (Total: 20) KEY 0106 KEY 0117	 Discussion
0202	Robert Chiles TuTh 12:30pm - 1:20pm Tu 9:30am - 10:20am	Seats (Total: 20) KEY 0106 TLF 1101	 Discussion
0203	Robert Chiles TuTh 12:30pm - 1:20pm Tu 11:00am - 11:50am	Seats (Total: 20) KEY 0106 KEY 0117	 Discussion
0204	Robert Chiles TuTh 12:30pm - 1:20pm Tu 2:00pm - 2:50pm	Seats (Total: 20) KEY 0106 JMZ 3120	 Discussion
0205	Robert Chiles TuTh 12:30pm - 1:20pm F 9:00am - 9:50am	Seats (Total: 20) KEY 0106 TLF 2103	 Discussion
0206	Robert Chiles TuTh 12:30pm - 1:20pm F 10:00am - 10:50am	Seats (Total: 20) KEY 0106 TLF 2103	 Discussion
0207	Robert Chiles TuTh 12:30pm - 1:20pm F 1:00pm - 1:50pm	Seats (Total: 20) KEY 0106 TLF 2103	 Discussion
0208	Robert Chiles TuTh 12:30pm - 1:20pm F 2:00pm - 2:50pm	Seats (Total: 20) KEY 0106 TLF 2103	 Discussion

FC01	Jeffrey Coster MW 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 30) ASY 3211	
FC02	Robert Chiles TuTh 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 30) TLF 2103	

HIST204 **Introduction to the History of Science**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH | General Education: DSHS

Credit only granted for: HIST174 or HIST204. Formerly: HIST174.

An exploration of the roots of modern science from the ancient Greeks through the medieval and early modern periods. Focus on the men and women who helped to create the sciences and to change public perceptions of their disciplines.

FC01	John Matthews MW 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 35) WDS 1114	

HIST205 **Environmental History**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH | General Education: DSHS, DSHU

An exploration of the way different societies have used, imagined, and managed nature. Includes examination of questions of land use, pollution, conservation, and the ideology of nature, especially but not exclusively in Europe and North America.

0101	Thomas Zeller TuTh 2:00pm - 2:50pm F 10:00am - 10:50am	Seats (Total: 20) KEY 0106 EGR 2116	 Discussion
0102	Thomas Zeller TuTh 2:00pm - 2:50pm F 11:00am - 11:50am	Seats (Total: 20) KEY 0106 KEY 0126	 Discussion
0103	Thomas Zeller TuTh 2:00pm - 2:50pm F 1:00pm - 1:50pm	Seats (Total: 20) KEY 0106 KEY 0117	 Discussion

0104	Thomas Zeller TuTh 2:00pm - 2:50pm F 2:00pm - 2:50pm	Seats (Total: 20) KEY 0106 KEY 0117	 Discussion

HIST208P **Historical Research and Methods Seminar; "How to Rule the World": Political Theory and Governance in the Ancient Mediterranean**

(Perm req)

Credits: 3 Grading Method: Regular

Reading and research skills and methods. Research papers will be based on the topic of the seminar.

A prime concern among ancient philosophers and rulers was how best to govern or rule a state. This concern and the questions it raised, such as how an ideal government is formed or what qualities in a person make them an ideal ruler, will be the focus of our class.

0101	Dustin Cranford Tu 11:00am - 12:50pm Contact instructor or department for details.	Seats (Total: 12) KEY 0107
0201	Dustin Cranford Tu 2:00pm - 3:50pm Contact instructor or department for details.	Seats (Total: 12) KEY 0107

HIST208Q **Historical Research and Methods Seminar; Atlantic Slavery and Abolition**

(Perm req)

Credits: 3 Grading Method: Regular

Reading and research skills and methods. Research papers will be based on the topic of the seminar.

This course examines the history of Atlantic slavery from the first arrival of sub-Saharan African slaves in Europe in the mid-fifteenth century to the abolition movements of the early nineteenth century.

0101	Matthias Fischer W 10:00am - 11:50am Contact instructor or department for details.	Seats (Total: 12) KEY 0107
0201	Matthias Fischer W 1:00pm - 2:50pm Contact instructor or department for details.	Seats (Total: 12) KEY 0107

HIST208R **Historical Research and Methods Seminar; Populism, Authoritarianism, and Counterrevolution in the Americas**

(Perm req)

Credits: 3 Grading Method: Regular

Reading and research skills and methods. Research papers will be based on the topic of the seminar.

This class will explore how elites and non-elites shaped, participated in, and resisted populist and authoritarian movements from the mid-nineteenth century until the early 2000s.

0101	Eben Levey Th 11:00am - 12:50pm Contact instructor or department for details.	Seats (Total: 12) KEY 0107
0201	Eben Levey Th 2:00pm - 3:50pm Contact instructor or department for details.	Seats (Total: 12) KEY 0107

HIST215 **Women in Western Europe to 1750**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH, D | General Education: DSHS, DVUP

Credit only granted for: HIST215 or HIST219A. Formerly: HIST219A.

An exploration of the theories and rhetoric about the nature and existence of women in the West, focusing on the experience of women from the hegemony of Classical Greece to the French Revolution, an era that marks the beginning of a continuous process of change. Emphasis will be on the period between 1250 and 1750, when the Western European world was fundamentally altered in every aspect and in every level of society, culture, and government.

0101	Sabrina Baron TuTh 3:30pm - 4:45pm	Seats (Total: 40) KEY 0103

HIST219E **Special Topics in History; Visual Cultures of Islam**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Also offered as AAST298B, ARTH389L, PERS298E, and RELS219E. Credit only granted for HIST219E, AAST298B, ARTH389L, PERS298E, or RELS219E. Visual Cultures of Islam is part of the Digital Islamic Studies Curriculum (digitalislam.umich.edu). This course is taught by renowned University of Michigan instructor, Christiane Gruber, an expert in the field of Islamic Art, and digitally shared with the University of Maryland. In this course, Professor Gruber explores definitions of "Islamic" art and investigates various visual cultures of Islam around the world from the 7th to the 20th century. The course meets twice a week in real time using video conferencing technology and students are able to enroll directly at Maryland for course credit.

0101	Instructor: TBA MW 11:30am - 1:00pm	Seats (Total: 10) HJP 3120

HIST219J **Special Topics in History; Modern India: From the British Raj to the World's Largest Democracy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Surveys the making of modern India, as well as Pakistan and Bangladesh, from the onset of colonialism in the 18th century to the present day. Focuses on three key themes: state formation and the persistence of regional identities; the negotiation of religious, ethnic, caste, and gender differences; and economic development and inequality.

0101	Mircea Raianu	Seats (Total: 30)
	MW 2:00pm - 3:15pm	TLF 2103

HIST219O **Special Topics in History; From Tarzan to Star Trek: Colonialism, Technology, and Science Fiction**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

0101	Paul Landau	Seats (Total: 40)
	TuTh 2:00pm - 3:15pm	KEY 1117

HIST219X **Special Topics in History; Modern Iran**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Also offered as HIST219X. Credit granted for PERS251 or HIST219X. General sociopolitical introduction to modern Iran from establishment of the Qajar dynasty in the late 18th century to the present day. Taught in English.

0101	Ida Meftahi	Seats (Total: 30)
	TuTh 3:30pm - 4:45pm	JMZ 2122

HIST219Z **Special Topics in History; The Devil in the Western Imagination**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Also offered as RELS219Z. Credit granted for HIST219Z or RELS219Z. Students take an interdisciplinary look at how the Devil has been thought of and portrayed over time, from the Bronze Age Middle East to the present.

0101	Andrew Kellett	Seats (Total: 40)
	Class time/details on ELMs	ONLINE

HIST224 **Modern Military History, 1494-1815**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: SH	General Education: DSHS

Survey of the military history of Europe through an examination of the economic, financial, strategic, tactical, and technological aspects of the development of military institutions and warfare from the dynastic wars of the Valois and Habsburgs to the national wars of the French Revolution and Napoleonic Empire.

0101	Patrick Chung	Seats (Total: 40)
	TuTh 9:30am - 10:45am	KEY 0126

HIST232 **The Historical Development of London**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: SH	General Education: DSHS

Restriction: Permission of Study Abroad Office required. Credit only granted for: GNED288 and HIST232. Formerly: GNED288.

Study Abroad in London, England. The history of London, beginning with its foundation by the Romans, continuing with the city's progressive political and cultural domination of England, the British Isles and the British Empire, and concluding with a look at the city in the 20th century. Students look at London through the eyes of contemporaries and historians while forming their own impressions of the city during course-based walking tours of the city.

Contact department for information to register for this course.

HIST234 **Invaders, Conquerors, Usurpers: A History of Pre-Modern Britain to 1485**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: SH	General Education: DSHS

British history from Roman times to the 15th century. The Anglo-Saxon, Scandinavian, and Norman invasions; the coming of Christianity; Magna Carta, the development of Parliament, legal institutions, and the Common Law; the decline of medieval kingship.

0101	Sabrina Baron	Seats (Total: 40)
	TuTh 11:00am - 12:15pm	KEY 0103

HIST250 **Colonial Latin America**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: SH, D	General Education: DSHS, DVUP

Also offered as: LASC250. Credit only granted for: HIST250 or LASC250.

Introductory survey of the history of Latin America from pre-Columbian Indian cultures to the beginning of the wars for independence (ca. 1810), covering cultural, political, social, and economic developments. Major themes include conquest, colonialism, indigenous culture, African slavery, religion, race and ethnicity, and gender ideologies.

0101	David Sartorius	Seats (Total: 40)
	TuTh 11:00am - 12:15pm	KEY 1117

HIST254 **African-American History to 1865**

Credits: 3 | Grading Method: Regular, Pass-Fail | General Education: DVUP

Survey of the principal developments in the history and culture of the peoples of African descent in colonial North America and the United States to 1865. Examines the African past, the Atlantic slave trade, variation in slavery, the growth of free black communities, the transformations of families and cultural forms, and patterns of resistance.

Also offered as AASP298C. Credit will be granted for AASP298C or HIST 254.

0101	Christopher Bonner	Seats (Total: 40)
	TuTh 11:00am - 12:15pm	KEY 0116

HIST266 **The United States in World Affairs**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH | General Education: DSHS

A study of the United States as an emerging world power and the American response to changing status in world affairs. Emphasis on the relationship between internal and external development of the nation.

0101	Howard Smead	Seats (Total: 40)
	MW 2:00pm - 3:15pm	KEY 0116

HIST269 **Special Topics in Study Abroad II**

Credits: 1-6 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

HIST269M **Special Topics in Study Abroad II; History of Modern Italy**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

HIST269Y **Special Topics in Study Abroad II; Rome: Republic and Empire**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

HIST287 **Why the Jews? Historical and Cultural Investigations**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, DSHU, DVUP

Restriction: Must not have completed HIST282, HIST283, JWST234, or JWST235. Also offered as: JWST233. Credit only granted for: HIST287 or JWST233.

Examines the history and culture of the Jews from the thirteenth century BCE/BC to the present through an examination of significant themes or problems (such as "religion" or "diaspora") that shape our understanding of the Jewish people. A primary focus in the course will be on texts, artifacts, and other cultural products by Jews and others that illustrate the history of the Jews help understand their cultural heritage.

For Fall 2018 - Also offered as JWST233 and RELS219D. Credit only granted for HIST287, JWST233, or RELS219D.

0101	Bernard Cooperman TuTh 2:00pm - 2:50pm F 10:00am - 10:50am	Seats (Total: 20) SQH 1120 BPS 1228	Discussion
0102	Bernard Cooperman TuTh 2:00pm - 2:50pm F 11:00am - 11:50am	Seats (Total: 20) SQH 1120 TLF 1103	Discussion
0103	Bernard Cooperman TuTh 2:00pm - 2:50pm F 1:00pm - 1:50pm	Seats (Total: 20) SQH 1120 TLF 1103	Discussion
0104	Bernard Cooperman TuTh 2:00pm - 2:50pm F 2:00pm - 2:50pm	Seats (Total: 20) SQH 1120 TLF 1103	Discussion

HIST289C **Mirror of Democracy: The Golden Age of Athens**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH | General Education: DSHS, SCIS

0101	Elizabeth Conner MW 11:00am - 11:50am M 12:00pm - 12:50pm	Seats (Total: 20) SYM 0200 TLF 1103	Discussion
0102	Elizabeth Conner MW 11:00am - 11:50am M 1:00pm - 1:50pm	Seats (Total: 20) SYM 0200 TLF 1103	Discussion
0103	Elizabeth Conner MW 11:00am - 11:50am W 12:00pm - 12:50pm	Seats (Total: 20) SYM 0200 TLF 1103	Discussion
0104	Elizabeth Conner MW 11:00am - 11:50am W 1:00pm - 1:50pm	Seats (Total: 20) SYM 0200 TLF 1103	Discussion
FC01	Jordan Slavik TuTh 6:00pm - 7:15pm	Seats (Total: 20) KEY 0117	

HIST289O **Lawlessness: From Pirates to Body-snatchers, Exploring the Legitimacy of Illicit Activity**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, SCIS

Explores motives of and responses to the lawless behavior of pirates, body snatchers, bandits, vigilantes, smugglers and others worldwide from the 1500s to today.

0101	Anne Rush TuTh 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 20) TYD 2109 KEY 0126	Discussion
0102	Anne Rush TuTh 11:00am - 11:50am F 12:00pm - 12:50pm	Seats (Total: 20) TYD 2109 KEY 0126	Discussion
0103	Anne Rush TuTh 11:00am - 11:50am F 1:00pm - 1:50pm	Seats (Total: 20) TYD 2109 KEY 0119	Discussion

0104	Anne Rush TuTh 11:00am - 11:50am F 2:00pm - 2:50pm	Seats (Total: 20) TYD 2109 KEY 0119	Discussion
FC01	Anne Rush TuTh 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 25) TLF 2103	

HIST289T **Jesus, Mani, and Muhammad: The Dynamics of New Religious Movements**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO, D | General Education: DSHU, DVUP, SCIS

Also offered as RELS289M. Credit Granted for RELS289M or HIST289T.

0101	Elizabeth Conner MW 1:00pm - 1:50pm W 2:00pm - 2:50pm	Seats (Total: 20) TYD 2106 KEY 0121	Discussion
0102	Elizabeth Conner MW 1:00pm - 1:50pm F 11:00am - 11:50am	Seats (Total: 20) TYD 2106 KEY 0124	Discussion
0103	Elizabeth Conner MW 1:00pm - 1:50pm F 1:00pm - 1:50pm	Seats (Total: 20) TYD 2106 JMZ 1117	Discussion
0104	Elizabeth Conner MW 1:00pm - 1:50pm F 2:00pm - 2:50pm	Seats (Total: 20) TYD 2106 JMZ 1117	Discussion

HIST299 **Directed Research**

(Perm req)

Credits: 1-3 | Grading Method: Regular, Pass-Fail, Audit

Closely guided research in primary sources for students currently enrolled in selected 100- or 200-level surveys in the Department of History.

Prerequisite: permission of department.

Contact department for information to register for this course.

HIST319B **Special Topics in History; History of the Vietnam War**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

0101	Colleen Woods TuTh 12:30pm - 1:45pm	Seats (Total: 40) TYD 2102

HIST319C **Special Topics in History; Roman Imperial Expansion**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

0101	Arthur Eckstein MW 2:00pm - 3:15pm	Seats (Total: 25) TLF 1103

HIST319V **Special Topics in History; America in the 1960's**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

0101	Katarina Keane MW 3:30pm - 4:45pm	Seats (Total: 40) KEY 1117

HIST319W **Special Topics in History; One Hundred Years of Hollywood and Politics**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Also offered as FILM329G. Credit only granted for HIST319W or FILM329G.

0101	Saverio Giovacchini MW 11:00am - 11:50am Class time/details on ELMs	Seats (Total: 40) KEY 1117 ONLINE

HIST319X **Special Topics in History; Travel Writing in the Americas**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

0101	David Sartorius TuTh 12:30pm - 1:45pm	Seats (Total: 30) TLF 1103

HIST328O **Selected Topics in History; Inventing the New World**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

From Columbus to the Amazons, El Dorado and the cannibals. Explores how sixteenth-century Europeans tried to make sense of their discovery of their discovery of the Americas. Emphasis on the ways in which the textual and visual representations of native peoples and their cultures by explorers, conquistadors, and missionaries contributed to development of European colonialism.

0101	Alejandro Caneque TuTh 3:30pm - 4:45pm	Seats (Total: 30) TLF 1101

HIST328R **Selected Topics in History; Global History of Soccer: Politics, Culture, and Society**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

0101	Daniel Richter MW 2:00pm - 3:15pm	Seats (Total: 40) SQH 1117

HIST329B **Special Topics in History; Drugs in the Modern World: From Opium Wars to the War on Drugs**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

0101	Daniel Richter MW 12:00pm - 12:50pm Class time/details on ELMs	Seats (Total: 40) SQH 1117 ONLINE

HIST329E **Special Topics in History; Black Women in United States History**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Also offered as AASP313 and WMST314. Credit granted for AASP313, WMST314 and HIST329E.

0101	Elsa Barkley Brown M 6:00pm - 8:30pm	Seats (Total: 35) KEY 0103

HIST329G **Special Topics in History; The Israeli Settler Movement: The Road to One State?**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHS

Also offered as ISRL329G and JWST319N. Credit only granted for ISRL329G, HIST329G, or JWST319N. An exploration of the Israeli settler movement in the West Bank and its rise to prominence in Israeli politics in the last two decades. We will also examine how the success of the settlers influences the prospects of a two-state solution for the Israeli-Palestinian conflict, as well as the merit of claims that Israel-Palestine is already under a "one-state" reality.

0101	Shay Hazkani MW 2:00pm - 3:15pm	Seats (Total: 30) HJP 2118

HIST329J **Special Topics in History; Public Interpretations of African American History**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Also offered as AASP398V and AMST328F. Credit only granted for HIST329J or AASP393V or AMST328F. This course analyzes public interpretations of African American history, considering the ways in which museums, historic sites, films, children's books, social media, and public school lesson plans have interpreted African American history. Students will also learn the core themes of public history such as shared authority, memory, ethical frameworks, and the practice of history in public spaces.

0101	Felicia Jamison MW 3:30pm - 4:45pm	Seats (Total: 25) TLF 2103

HIST329O **Special Topics in History; Ideologies, Parties, and Social Movements in the Modern Middle East**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The course focuses on the emergence and evolution of political and social movements in Middle Eastern countries since the second half of the 19th century. The focus will be on ideologies and intellectual programs, as well as on forms of organization and on social practices. The platforms of these movements spanned from left wing radicalism, communism, to political Islam and right wing nationalism. Organizationally the movements ranged from transnational intellectual circles to political parties.

0101	Peter Wien TuTh 9:30am - 10:45am	Seats (Total: 30) KEY 0100

HIST329Y **Special Topics in History; Workers of US Capitalism**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

0101	Julie Greene TuTh 9:30am - 10:45am	Seats (Total: 40) KEY 0103

HIST331 **Europe in the High Middle Ages: 1000-1500**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Also offered as: RELS341. Credit only granted for: HIST331 or RELS341.

Medieval civilization in the 11th through 15th centuries. Emphasis on cultural and political developments of the high Middle Ages with study of the principal sources of medieval thought and learning, art and architecture, and political theory prior to the Renaissance.

0101	Janna Bianchini	Seats (Total: 40)
	MW 2:00pm - 3:15pm	KEY 0126

HIST332 **Renaissance Europe**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: HIST112 or HIST111; or permission of instructor. Also offered as: RELS342. Credit only granted for: HIST332 or RELS342.

Intellectual developments in Italy and Northern Europe from 1300 to 1550 and their influence on the arts and religion; social and economic trends, including the rise of the commercial economy in cities; the family and the role of women in society; expansion of Europe overseas and the beginnings of colonization; emergence of the state and consequent changes in political theory.

0101	Stefano Villani	Seats (Total: 40)
	TuTh 2:00pm - 3:15pm	KEY 0116

HIST355 **Civil War and the Rise of Industrialization, 1860-1900**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: HIST200, HIST201, HIST210, HIST213, HIST222, HIST254, HIST255, or HIST275; or must have completed HIST156 or HIST157; or permission of instructor. Credit only granted for: HIST355 or HIST364.

Civil War, sectional and class conflicts and their impact on American life and institutions from the beginning of the Civil War through the Gilded Age; social, economic, and political reconstruction of the Union; industrialization, urbanization, and technological changes.

0101	Robert Chiles	Seats (Total: 40)
	TuTh 9:30am - 10:45am	KEY 1117

HIST357 **Recent America: 1945-Present**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: HIST201, HIST211, HIST213, HIST222, HIST255, or HIST275; or must have completed HIST157; or permission of instructor.

American history from the inauguration of Harry S. Truman to the presen with emphasis upon politics and foreign relations, but with consideration of special topics such as radicalism, conservatism, and labor.

0101	Robert Chiles	Seats (Total: 40)
	TuTh 2:00pm - 3:15pm	KEY 0126

HIST369C **Special Topics in Study Abroad III; 20th Century and Contemporary European History and Cinema**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

HIST369F **Special Topics in Study Abroad III; Caesar, Cicero and the Collapse of the Roman Republic**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

HIST371 **Jews and Judaism in Antiquity II: First through Seventh Century**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHS, DSSP, DVUP

Recommended: HIST370. Also offered as: JWST326. Credit only granted for: HIST371 or JWST326.

Political, social, and religious history of the Jews from the destruction of the Jerusalem Temple in 70 CE to the Muslim conquests. Special attention to the political transformation of Judaism under late Roman Christianity, and the rise of the Rabbinic movement.

For Fall 2018 - Also offered as JWST326 and RELS319D. Credit only granted for HIST371, JWST326, or RELS319D.

0101	Hayim Lapin	Seats (Total: 30)
	MW 2:00pm - 3:15pm	KEY 0100

HIST386 **Experiential Learning**

(Perm req)

Credits: 3-6

Grading Method: Regular, Pass-Fail

Restriction: Permission of ARHU-History department; and junior standing or higher.

The History Department's Internship program. Pre-professional experience in historical research, analysis, and writing in a variety of work settings.

Contact department for information to register for this course.

HIST395 **Honors Colloquium I**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of ARHU-History department; and must be in History program.

History and theory: the conceptual underpinnings of the historical discipline. Students evaluate several contrasting theories of history. Prerequisite for other honors courses.

0101	Robyn Muncy	Seats (Total: 15)
	W 2:00pm - 3:50pm	TLF 2100
	Contact instructor or department for details.	

HIST408F **Senior Seminar; State Secrets: Writing the History of the Central Intelligence Agency**

(Perm req)

Credits: 3 Grading Method: Regular CORE: CS General Education: DSSP

A capstone course for history majors, designed to increase historical knowledge and the ability to analyze texts and arguments. Topics will focus on the literature of a particular field and primary-source research.

0101	Colleen Woods	Seats (Total: 12)
	Th 3:30pm - 5:20pm	TLF 2108
	Contact instructor or department for details.	

HIST408K **Senior Seminar; Jews, Politics, and the State**

Credits: 3 Grading Method: Regular CORE: CS General Education: DSSP

A capstone course for history majors, designed to increase historical knowledge and the ability to analyze texts and arguments. Topics will focus on the literature of a particular field and primary-source research.

This course will explore the relationship between the state and the Jews and Jews and the state in Europe and America since the late eighteenth century when Jews started the process of integration into the societies in which they lived. It will look at state policy toward Jews, how Jews responded to state policy, and how they mobilized politically to effect issues of concern to Jews. We will compare different states and why Jews in those states chose different forms of political activity. The purpose of this course is two-fold: to deal with an important issue in a scholarly manner and to do a serious research project that involves tackling an important historical problem, engaging with primary sources, and presenting an analysis of and argument about that problem based on the sources.

0101	Marsha Rozenblit Tu 3:30pm - 5:20pm Contact instructor or department for details.	Seats (Total: 8) KEY 2115D

HIST408M **Senior Seminar; The Late 1960s**

(Perm req)

Credits: 3 Grading Method: Regular CORE: CS General Education: DSSP

A capstone course for history majors, designed to increase historical knowledge and the ability to analyze texts and arguments. Topics will focus on the literature of a particular field and primary-source research.

0101	Arthur Eckstein Tu 2:00pm - 3:50pm Contact instructor or department for details.	Seats (Total: 12) TLF 2100

HIST408O **Senior Seminar; African Americans and the Movies**

(Perm req)

Credits: 3 Grading Method: Regular CORE: CS General Education: DSSP

A capstone course for history majors, designed to increase historical knowledge and the ability to analyze texts and arguments. Topics will focus on the literature of a particular field and primary-source research.

0101	Elsa Barkley Brown Tu 12:30pm - 2:20pm Contact instructor or department for details.	Seats (Total: 12) TLF 2108

HIST419C **Special Topics in History; Sex, Gender, and Sexuality in the Islamic World**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Also offered as PERS 498M, PERS 689M, HIST 619E, WMST 498D, WMST 698D, and CMLT 679D. Credit only granted for PERS 498M, PERS 689M, CMLT 679D, HIST 419C, HIST 619E, WMST 498D, or WMST 698D. Sex, Gender, and Sexuality in the Islamic World is an advanced introduction to the study of the changing norms of sex, gender, and sexuality in the Islamicate world, past and present. Through engagement with primary source readings, recent scholarly studies, and theoretical literature from Gender and Sexuality Studies and Queer Theory, we will cover such topics as: Islamic sexual ethics; homo- and heteroerotic poetry and art of both the spiritual and profane varieties; transvestism , androgyny, and gender nonconformity in the medieval Islamic world; premodern Islamic medical and courtly advice literature on sex; and the construction of "sexuality" (homo- and heterosexuality) in the modern Middle East. The course does not require any prior knowledge of Gender and Sexuality Studies or Islamicate cultures and languages.

0101	Matthew Miller	Seats (Total: 15)
	W 6:30pm - 9:00pm	JMZ 0120

HIST419X **Special Topics in History; Corporations on Trial: Histories of Law, Capitalism, and Human Rights**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Examines legal challenges to corporations around the world over the past 200 years through selected case studies. Topics include globalization, empires, the world wars, and the emergence of human rights, corporate social responsibility, and environmental justice.

0101	Mircea Raianu	Seats (Total: 20)
	Tu 12:30pm - 2:30pm	TLF 2103
	Contact instructor or department for details.	

HIST428A **Selected Topics in History; Chinese Cities and Frontiers**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

0101	James Gao	Seats (Total: 30)
	TuTh 3:30pm - 4:45pm	KEY 0100

HIST428Z **Selected Topics in History; History of Europe Since 1939**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

This course examines European history from the beginning of World War II to the current challenges to the liberal political and economic institutions established in its aftermath. We begin with World War II and the Holocaust because these massive events had a profound impact on what is right called the postwar era in both Western and Eastern Europe. What lessons did Europeans draw from these catastrophes? The course gives equal weight to the histories of divided Europe in the era of the Cold War, to the Western Alliance and European economic integration in the West, and the Soviet Empire and the Communist regimes in the East. How did Europeans remember and forget the history of the cataclysm of the war and the Holocaust? Why did the Cold War remain "cold" in the era of "the long peace" of nuclear standoff from 1945 to to 1989? What were the long term and short term causes of the revolutions of 1989? Topics include decolonization, terrorism, emergence of and challenges to liberal democracy, the emergence of welfare states, the history of migration, first within Europe and then of migrants from outside Europe.

0101	Jeffrey Herf	Seats (Total: 40)
	TuTh 11:00am - 12:15pm	SQH 1119

HIST429A **Special Topics in History; Victoria's Secrets: Sex and Class in Nineteenth Centure Britain**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Queen Victoria, Darwin, Sherlock Holmes and Jack the Ripper: meet some of the Victorians who continue to captivate our historical imagination and learn the truth about sex, class, and race in 19th Century Britain.

0101	Julie Taddeo	Seats (Total: 30)
	TuTh 12:30pm - 1:45pm	TLF 1101

HIST429C **Special Topics in History; Sufism: Mystics in Islamic History**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Social and intellectual history of Sufism from its beginnings in the 9th and 10th centuries through the spread of Sufi paths in the medieval and early modern periods all the way to its changing fortunes in the colonial, postcolonial and global eras.

0101	Ahmet Karamustafa	Seats (Total: 15)
	Tu 3:30pm - 6:00pm	KEY 0117

HIST442 **Twentieth-Century Russia**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Russia and the Soviet Union from the fall of the tsars to the post- communist present. Impact of Leninism, Stalinism, and Soviet Communism on state, society, culture, and nationality.

0101	Sarah Cameron	Seats (Total: 40)
	TuTh 12:30pm - 1:45pm	KEY 0103

HIST451 **Economic History of the United States After 1865**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: HIST201, HIST211, HIST213, HIST222, HIST255, or HIST275; or permission of instructor.

Examines the evolution of American capitalism from 1900 to the present, with special attention to the interactions of business, government, and organized labor. Key questions include: How did the United States build the world's largest economy in the late nineteenth and early twentieth centuries? What caused the Great Depression, and the recovery that followed? Which entrepreneurs played leading roles in modern U.S. capitalism? How did federal policymaking interact, evolve, and mutually constitute itself with private enterprise across the twentieth century? Why did the United States slip as a global competitor in the 1970s and 1980s? How new - and real - is the "New Economy"? How have economists understood these changes? To address these and related issues, we will analyze primary sources by ordinary and elite historical actors as well as secondary writings by economists and historians.

0101	David Sicilia	Seats (Total: 40)
	MW 2:00pm - 3:15pm	KEY 0103

HIST454 **Constitutional History of the United States: From Colonial Origins to 1865**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The interaction of government, law, and politics in the constitutional system. The nature and purpose of constitutions and constitutionalism; the relationship between the constitution and social forces and influences, the way in which constitutional principles, rules, ideas, and institutions affect events and are in turn affected by events. The origins of American politics and constitutionalism through the Constitutional Convention of 1787. Major constitutional problems such as the origins of judicial review, democratization of government, slavery in the territories, secession, and civil war.

0101	Michael Ross	Seats (Total: 40)
	TuTh 3:30pm - 4:45pm	SQH 1120

HIST466 **Immigration and Ethnicity in the U.S.**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: AAST200, AAST201, AAST222, HIST200, HIST201, HIST221, or HIST222; or must have completed HIST156 or HIST157; or permission of ARHU-History department. Credit only granted for: AAST498L or HIST466.

Seminar exploring historical problems relating to US immigration, race, and ethnicity since 1848, with emphasis on cultural impacts of migration on immigrants, their children, and U.S. society.

0101	Julie Greene	Seats (Total: 15)
	Tu 2:00pm - 4:30pm	TLF 2101

HIST481 **A History of Modern China**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Modern China from 1644 to the People's Republic of China. Emphasis on the coming of the West to China and the various stages of the Chinese reaction.

0101	James Gao	Seats (Total: 30)
	TuTh 11:00am - 12:15pm	TLF 1101

HIST482 **History of Japan to 1800**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Traditional Japanese civilization from the age of Shinto mythology and introduction of continental learning down to the rule of military families, the transition to a money economy, and the creation of a townsmen's culture. A survey of political, economic, religious, and cultural history.

0101	Louisa Rubinfien	Seats (Total: 30)
	MW 3:30pm - 4:45pm	KEY 0126

HIST491 **History of the Ottoman Empire**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit , D

Survey of the Ottoman Turkish Empire from 1300 A.D. to its collapse during World War I. Emphasis on the empire's social and political institutions and its expansion into Europe, the Arab East and North Africa.

0101	Madeline Zilfi	Seats (Total: 32)
	TuTh 9:30am - 10:45am	KEY 0116

HIST499 **Independent Study**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: permission of department.

Contact department for information to register for this course.

HIST601 **History and Contemporary Theory**

Credits: 3 Grading Method: Regular, Audit

An introduction to contemporary theories in philosophy, literary criticism, cultural studies, anthropology, and other fields; and analysis of their usefulness to historians.

0101	Saverio Giovacchini W 3:30pm - 6:00pm	Seats (Total: 15) TLF 2108

HIST607 **The Teaching of History in Institutions of Higher Learning**

(Perm req)

Credits: 1 Grading Method: Sat-Fail

0101	Ahmet Karamustafa Contact instructor or department for details.	Seats (Total: 15)
0201	David Freund Contact instructor or department for details.	Seats (Total: 6)

HIST608A **General Seminar; American History**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

General seminar in student's major field of study (e.g., U.S.; Women an Gender; International, World, and Comparative; Science and Technology; Latin America) exploring the concentration's major issues, topics, and literature.

Prerequisite: permission of department.

0101	Christopher Bonner Tu 6:00pm - 8:30pm	Seats (Total: 15) TLF 2103

HIST610 **Introduction to Museum Scholarship**

Credits: 3 Grading Method: Regular, Audit

Also offered as: AMST655. Credit only granted for: AMST655, ANTH655, or HIST610.

Provides students a basic understanding of museums as cultural and intellectual institutions. Topics include the historical development of museums, museums as resources for scholarly study, and the museum exhibition as medium for presentation of scholarship.

0101	Ricardo Punzalan	Seats (Total: 15)
	M 1:00pm - 3:45pm	SYM 0215

HIST619A **Special Topics in History; Independent Study**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Prerequisite: permission of department.

Contact department for information to register for this course.

HIST619B **Special Topics in History; Independent Study**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Prerequisite: permission of department.

Contact department for information to register for this course.

HIST619E **Special Topics in History; Sex, Gender, and Sexuality in the Islamic World**

Credits: 3 Grading Method: Regular, Audit

Also offered as PERS 498M, PERS 689M, HIST 419C, WMST 498D, WMST 698D, and CMLT 679D. Credit only granted for PERS 498M, PERS 689M, CMLT 679D, HIST 419C, HIST 619E, WMST 498D, or WMST 698D. Sex, Gender, and Sexuality in the Islamic World is an advanced introduction to the study of the changing norms of sex, gender, and sexuality in the Islamicate world, past and present. Through engagement with primary source readings, recent scholarly studies, and theoretical literature from Gender and Sexuality Studies and Queer Theory, we will cover such topics as: Islamic sexual ethics; homo- and heteroerotic poetry and art of both the spiritual and profane varieties; transvestism , androgyny, and gender nonconformity in the medieval Islamic world; premodern Islamic medical and courtly advice literature on sex; and the construction of "sexuality" (homo- and heterosexuality) in the modern Middle East. The course does not require any prior knowledge of Gender and Sexuality Studies or Islamicate cultures and languages.

0101	Matthew Miller	Seats (Total: 15)
	W 6:30pm - 9:00pm	JMZ 0120

HIST619L **Special Topics in History; Readings on the New South**

Credits: 1-3 Grading Method: Regular, Audit

0101	Leslie Rowland W 3:30pm - 6:00pm	Seats (Total: 12) TLF 2101

HIST619N **Special Topics in History; The British and French Empires, 1870-1970**

Credits: 1-3 Grading Method: Regular, Audit

0101	Paul Landau Th 6:00pm - 8:30pm	Seats (Total: 12) TLF 2100

HIST619Y **Special Topics in History; History of the Ottoman Empire**

Credits: 1-3 Grading Method: Regular, Audit

0101	Madeline Zilfi TuTh 9:30am - 10:45am	Seats (Total: 5) KEY 0116

HIST619Z **Special Topics in History; Middle East Studies Graduate Colloquium**

Credits: 1 Grading Method: Regular, Audit

Also offered as JWST699N. Credit granted for HIST619Z or JWST699N. Contact instructor for information, pwien@umd.edu.

0101	Instructor: TBA Contact instructor or department for details.	Seats (Total: 20)

HIST638A **Special Topics in History; The Long 20th Century: Politics, Culture, and Institutions in U.S. History**

Credits: 3 Grading Method: Regular, Audit

Special Topics in History.

0101	David Freund Tu 3:30pm - 6:00pm	Seats (Total: 12) TLF 2108

HIST639N **Special Topics in History; Constructing the Past in the First Millennium: Comparisons East and West**

Credits: 3 Grading Method: Regular, Audit

Special Topics in History.

The famous French medievalist Marc Bloch argued that all history is in a sense comparative history. This course seeks to fulfill Bloch's insistence on comparison by examining together the key changes that occurred in the mid-eighth century, both East and West. The class will analyze the consequential transition from Umayyad to Abbasid power in the East and the transition from Merovingian to Carolingian power in the West, placing special emphasis on how each 'winning' dynasty shaped the memory of their predecessors, advancing a new construction of the Frankish and Islamic pasts. If we take seriously Bloch's insight that comparative history is essential, then comparative historiography is too. This course, the first of its kind, is offered under the auspices of the First Millennium Network, an organization that seeks to bring the complex traditions of the first millennium of the common era into dialogue with each other. It will be jointly offered by CUA and UMD, alternating each week between campuses, and will be co-taught by a specialist in early Islamic history and a specialist in early Medieval western history.

0101	Antoine Borrut	Seats (Total: 6)
	Th 3:30pm - 6:00pm	TLF 2100

HIST639V **Special Topics in History; Mystics in Islamic History**

Credits: 3 Grading Method: Regular, Audit

Special Topics in History.

Social and intellectual history of Sufism from its beginnings in the 9th and 10th centuries through the spread of Sufi paths in the medieval and early modern periods all the way to its changing fortunes in the colonial, postcolonial and global eras.

0101	Ahmet Karamustafa	Seats (Total: 5)
	Tu 3:30pm - 6:00pm	KEY 0117

HIST639Z **Special Topics in History; Issues and Themes in Soviet History**

Credits: 3 Grading Method: Regular, Audit

Special Topics in History.

0101	Sarah Cameron	Seats (Total: 12)
	Th 3:30pm - 6:00pm	TLF 2101

HIST708 **Directed Independent Reading for Comprehensive Examinations I**

Credits: 1-4 Grading Method: Sat-Fail

Directed reading in preparation for Doctoral Comprehensive Examinations In consultation with their advisors, students will select a number of books and articles from an approved list. Grading for the course will reflect performance on the written and oral sections of the Comprehensive Examinations.

Contact department for information to register for this course.

HIST709 **Directed Independent Reading for Comprehensive Examinations II**

Credits: 1-4 Grading Method: Sat-Fail

Directed reading in preparation for Doctoral Comprehensive Examinations. In consultation with their advisors, students will select a number of books and articles from an approved list. Grading for the course will reflect performance on the written and oral sections of the Comprehensive Examinations.

Contact department for information to register for this course.

HIST729A **Readings in Modern European History; Ideas and Politics in Europe since 1900**

Credits: 3 Grading Method: Regular, Audit

Reading knowledge of some European language recommended but not required.

We examine the intersection of ideas, intellectuals and politics in Germany, France and England as well as the Soviet Union, Central and Eastern Europe. Themes include the impact World War I; psychoanalysis and the unconscious; the postwar attack on economic and political liberalism; anti-Semitism and the ideological aspects of the Holocaust; Nazism, Communism and the intellectuals in the era of totalitarianism; ideologies and politics during World War II and during the Cold War; memory, forgetting and justice in East and West Europe; the new left of the 1960s and terrorist violence in the aftermath; dissidents in Central and Eastern Europe; the revolutions of 1989; intellectual challenges and defenses of the liberal order in Europe in recent decades.

0101	Jeffrey Herf	Seats (Total: 12)
	Tu 6:00pm - 8:30pm	TLF 2108

HIST799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

HIST810 **Museum Research Seminar**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: HIST610. Also offered as: ANTH856, AMST856. Credit only granted for: AMST856, HIST810, or ANTH856.

A research seminar focusing on the practice and presentation of cultura and historical scholarship in museums and historical sites. Students will complete an original research project on the challenges and opportunities of public exhibition and interpretation of cultural and historical research.

0101	Mary Sies W 4:00pm - 6:40pm	Seats (Total: 15) TWS 0134

HIST811 **Museum Scholarship Practicum**

(Perm req)

Credits: 3-6 Grading Method: Regular

Prerequisite: HIST810. Restriction: Permission of Museum Scholarship Program required. Also offered as: ANTH857, AMST857. Credit only granted for: ANTH 857, AMST857 or HIST811.

Students devise and carry out a research program using the collections at the Smithsonian Institution or some other cooperating museum, working under joint supervision of a museum professional and a university faculty member.

0101	Mary Alexander Contact instructor or department for details.	Seats (Total: 3)
0401	Mary Sies Contact instructor or department for details.	Seats (Total: 2)

HIST819A **Special Topics in History: Independent Research**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Individual graduate research in an area not covered by current seminar offerings. The product will be a finished research paper normally based on original materials.

Department permission required.

Contact department for information to register for this course.

HIST819B **Special Topics in History: Independent Research**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Individual graduate research in an area not covered by current seminar offerings. The product will be a finished research paper normally based on original materials.

Department permission required.

Contact department for information to register for this course.

HIST819M **Special Topics in History: Independent Research; United States History: Reconstruction to the Present**

Credits: 3 Grading Method: Regular, Audit

Individual graduate research in an area not covered by current seminar offerings. The product will be a finished research paper normally based on original materials.

0101	Robyn Muncy	Seats (Total: 12)
	Th 6:00pm - 8:30pm	TLF 2108

HIST898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

HIST899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

HLMN Hillman Entrepreneurs Program Fall 2018

HLMN470 **Fundamentals of Entrepreneurial Ventures**

Credits: 3 Grading Method: Regular

Restriction: Restricted to students in the Hillman Entrepreneurs Program. Credit only granted for: HLMN470, ENES460 or BMGT461. Additional information: HLMN470 may not count toward any BMGT major or minor degree.

Learn the processes and skills needed to launch and manage start-up ventures, including technology startups. Assess the feasibility of a startup ventures, as well as how to apply best practices for planning, launching, and managing new companies by using real-world examples and in-depth case studies. Discuss a wide range of issues of importance and concern to entrepreneurs and learn to recognize opportunity, assess the skills and talents of successful entrepreneurs, and learn models and approaches that help navigate uncertainty.

0101	Gul Branco	Seats (Total: 75)
	F 1:00pm - 3:30pm	ESJ 0215

HLMN472 **Strategies for Innovation & Entrepreneurship**

Credits: 3 Grading Method: Regular

Restriction: Restricted to students in the Hillman Entrepreneurs Program. Credit only granted for: HLMN472, BMGT467, or ENES463. Additional information: HLMN472 may not count toward any BMGT major or minor degree.

Understand the process of technological change; the ways that firms come up with innovations; the strategies that firms use to benefit from innovation; and how to create new value not only through new products or services, but with novel technologies, business concepts, organizing structures, transaction/financing mechanisms, distribution channels, and market segmentation. Challenge students to think about how to create value and build a productive business organization with available resources (e.g. intelligence, insight, energy, initiative and personal relationships).

0101	Adam Zuckerman, Harry Alford F 1:00pm - 3:30pm	Seats (Total: 75) ESJ 1215	

HLSA Health Services Administration Fall 2018

HLSA300 **Introduction to Health Policy and Services**

Credits: 3 Grading Method: Regular

Prerequisite: Must have completed or be concurrently enrolled in SPHL100 or PHSC300. Restriction: Must be in Public Health Science program; and must have earned a minimum of 60 credits. Credit only granted for: SPHL498P or HLSA300. Formerly: SPHL498P.

A multidimensional view of public health policy and services. Through interactive discussion of assigned readings, team-based learning, and supplementary lecture, students will learn about the nature of and development of policy, public health policy, and financing and delivery of health care services. This course will place a significant emphasis on a team-based learning approach to understanding the health care system and health care reform.

0101	Neil Sehgal MW 10:00am - 10:50am W 11:00am - 11:50am	Seats (Total: 20) ESJ 2208 HBK 0105	 Discussion
0102	Neil Sehgal MW 10:00am - 10:50am W 12:00pm - 12:50pm	Seats (Total: 20) ESJ 2208 HBK 0105	 Discussion
0103	Neil Sehgal MW 10:00am - 10:50am W 2:00pm - 2:50pm	Seats (Total: 20) ESJ 2208 SPH 0307	 Discussion
0104	Neil Sehgal MW 10:00am - 10:50am W 3:00pm - 3:50pm	Seats (Total: 20) ESJ 2208 SPH 0307	 Discussion

0105	Neil Sehgal MW 10:00am - 10:50am F 9:00am - 9:50am	Seats (Total: 20) ESJ 2208 SPH 0302	Discussion
0106	Neil Sehgal MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 20) ESJ 2208 SPH 0303	Discussion
0107	Neil Sehgal MW 10:00am - 10:50am F 11:00am - 11:50am	Seats (Total: 20) ESJ 2208 SPH 0303	Discussion
SG91	Negin Fouladi M 2:00pm - 4:30pm	Seats (Total: 40) BLD2 3012	
	Class meets at the Shady Grove campus. Restricted to School of Public Health students. Permission of program director is required for other UMCP undergraduate students to enroll.		

HLSA484 **Redesigning Health Care: Developing a Clinic to Meet Community Needs**

Credits: 3 Grading Method: Regular

Restriction: Must have completed a minimum of 60 credits. Additional information: Two sessions will be on-site at the Mona Clinic in Temple Hills, MD, and the remaining sessions will be taught in the University of Maryland's Academy for Innovation and Entrepreneurship.

Provides an opportunity for students to learn a key entrepreneurial skill, Design Thinking, while helping to build, reshape, redesign and transform delivery of health care in the Mona Center, a new community center and clinic in Prince George's County. This new, modern vision for a health and wellness clinic embraces student involvement in designing, planning and contributing to innovative programs, solutions, and processes to improve the clinic's ability to meet community and patient needs by addressing the social determinants of health as well as traditional clinical health status. Students in the class will develop empathy for patients, providers and other stakeholders, define problems, select a specific problem for intervention, understand problems based on stakeholder input, ideate, reframe and suggest options to solve or address the problem, prototype solutions, test ideas, and make recommendations to inform implementation and ongoing measurement and monitoring of impact.

0101	Stephen Thomas F 10:00am - 12:30pm	Seats (Total: 20) ESJ 2101	

HLSA601 **Introduction to Health Systems**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must not have completed HLTH740. Credit only granted for: HLSA601, HLTH688A, or HLTH740. Formerly: HLTH688A or HLTH740.

Management and leadership skills for effective public health planning, organization, management and administration. Emphasis is on the role of institutions in learning and behavioral change process, organizational theory, administration management, and coordinating provision of community health services.

0102	Paul Jung Tu 4:00pm - 6:45pm	Seats (Total: 60) SPH 1301
PLH1	Negin Fouladi Class time/details on ELMs	Seats (Total: 35) ONLINE
	Must be in Public Health Policy & Practice program. For permission to enroll, contact oes@umd.edu.	

HLSA611 **Introduction to Health Equity**

Credits: 3 Grading Method: Regular

The emerging field of health equity is concerned with understanding the causes and consequences of social disparities in population health. This course is designed to expose students to the foundational issues in health equity from a variety of perspectives. Through weekly meetings and discussion, students will develop familiarity with the major literature in the field of health equity. The course is divided into three sections: (1) Understanding & Addressing Health Disparities; (2) Disparity Populations; and (3) Solutions in Health Equity. Students will gain understanding of the dimensions and sources of health inequality, including race/ethnicity, socioeconomic status, gender, nativity, and sexual minority status. Current policy debates and recent policy developments related to health equity are also briefly discussed.

0101	Kellee White Th 4:00pm - 6:45pm	Seats (Total: 25) SPH 0302

HLSA688 **Independent Study**

Credits: 1-6 Grading Method: Regular, Audit

Master or doctoral students who desire to pursue special research problems under the direction of a faculty memeber of the department may register for 1-6 hours of credit under this number.

Contact department for information to register for this course.

HLSA689 **Field Work in Aging**

Credits: 1-6 Grading Method: Regular

Individual instruction course.

0201	Lori Simon-Rusinowitz	Seats (Total: 5)
	Contact instructor or department for details.	

HLSA702 **Policy and Politics of Health**

Credits: 3 Grading Method: Regular, Audit

Organizational and financial components of the U.S. health care system, including social and political forces that bind the system. Advanced political analysis of the health care system, including key issues and problems.

Contact department for information to register for this course.

HLSA703 **Seminar in Health Equity**

Credits: 1 Grading Method: Regular, Audit

Student-led presentations and discussion of contemporary literature in the areas of health disparities and health equity, social determinants, (eg. race, ethnicity, sex, age, sexual identity, disability, socioeconomic status, and geographic location) and policies and programs to address disparities. The emphasis is on papers describing new research findings, novel techniques, innovative methods, and emerging issues.

0101	Dylan Roby	Seats (Total: 20)
	Th 12:00pm - 12:50pm	PHY 0405

HLSA709 **Graduate Seminar**

Credits: 1 Grading Method: Sat-Fail, Audit

The purpose of the course is for doctoral students to present their work on their dissertation to fellow doctoral students and faculty in an informal supportive environment. Faculty and students provide feedback and suggestions that are helpful to the presenting students.

0101	Luisa Franzini	Seats (Total: 10)
	Th 12:00pm - 12:50pm	Location: TBA

HLSA711 **Health Economics and Analysis**

Credits: 3 Grading Method: Regular, Audit

Provides an analysis of health and health care services as economic goods. Using microeconomic theories, we will examine the behavior of health care providers, consumers, markets, and firms.

0101	Jie Chen Tu 4:00pm - 6:45pm	Seats (Total: 20) PLS 1172
PLH1	Farah Farahati Class time/details on ELMs	Seats (Total: 35) ONLINE

Must be in Public Health Policy & Practice program. For permission to enroll, contact oes@umd.edu.

HLSA713 **Seminar in Health Policy**

Credits: 1 Grading Method: Regular, Audit

Student-led presentations of contemporary literature in the areas of health policy, health care reform in the nation and Maryland, and evaluation of health policies and programs. Emphasis on papers describing new research findings, novel techniques, innovative methods, and emerging issues.

Shared with HLSA703. suz

0101	Dylan Roby Th 12:00pm - 12:50pm	Seats (Total: 20) PHY 0405

HLSA714 **Economic Evaluation of Medical Care**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: HLSA601 and EPIB650; or students who have taken courses with comparable content may contact the department.

An overview of the theory and applications of cost-benefit analysis, cost-effectiveness analysis, and related forms of economic evaluation/decision analysis in the health care sector.

0101	Michel Boudreaux W 4:00pm - 6:45pm	Seats (Total: 25) ATL 1114

HLSA720 **Health Law and Ethics**

Credits: 3 Grading Method: Regular, Audit

The legal system helps determine the relationships prevailing among individuals, institutions and governments by setting out the rights, duties and powers of the various parties. This course will look at some of the more important concepts the law uses within the context of health services and public health.

0101	Mathew Swinburne Th 4:00pm - 6:45pm	Seats (Total: 25) ANS 0412
PLH1	Arthur Reynolds Class time/details on ELMs	Seats (Total: 35) ONLINE
	Must be in Public Health Policy & Practice program. For permission to enroll, contact oes@umd.edu.	

HLSA725 Econometrics in Public Health

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EPIB650; or students who have taken courses with comparable content may contact the department. Additional information: priority enrollment will be given to students at the School of Public Health.

Empirical course to introduce students to econometric methods and their applications in public health.

0101	Luisa Franzini Th 4:00pm - 6:45pm	Seats (Total: 20) Location: TBA

HLSA745 Public Health Practice and Management

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in SPHL-School of Public Health; or permission of instructor.

Examines the relationship of practice and management in performing essential public health services on local, state and national levels.

PLH1	Joseph Flannery Class time/details on ELMs	Seats (Total: 35) ONLINE
	Must be in Public Health Policy & Practice program. For permission to enroll, contact oes@umd.edu.	

HLSA750 Healthcare Management Information Systems

Credits: 3

Grading Method: Regular, Audit

Provides a background and overview of the analysis, design, evaluation, selection, installation, use, and mangement of information systems in health care settings. Students will review the information management function and value of information and the role of information technology in the provision of high quality care and management decision making. Details on computer hardware, software, networking, and telecommunications sufficient for understanding of concepts relevant to health care managers and staff will be addressed.

0501	Neil Sehgal	Seats (Total: 10)
	Meets August 27, 2018 - December 11, 2018	
	MW 8:00pm - 9:15pm	VMH 1415

HLSA765 **Oral and Written Communication in Healthcare**

Credits: 3

Grading Method: Regular, Audit

Recommended: Completed all coursework related to one s dissertation topic; and identified in collaboration with one s dissertation advisor a topic area and potential data set. Restriction: Must be in Health Services Ph.D. (Doctoral) program; or permission of instructor. And must have passed departmental qualifying exam.

Designed to support doctoral students prepare their dissertation proposal and oral presentation. The course is structured around a literature synthesis and development of a modified AHRQ R36 grant application which includes developing a research question and hypotheses, a conceptual model, specific aims, background and significance, and research strategy. The importance of communicating complex ideas through oral and written forms will be emphasized.

0101	Eva DuGoff	Seats (Total: 15)
	Th 4:00pm - 6:45pm	SPH 0301

HLSA770 **Continuous Quality Improvement in Healthcare**

Credits: 3

Grading Method: Regular, Audit

Designed for the health care professional or administrator involved in quality assurance in health care. Course includes historical beginnings, state-of-the-art, voluntary, governmental efforts, and tools to promote quality assurance.

0101	Robert Mekelburg	Seats (Total: 20)
	Tu 7:00pm - 9:45pm	SPH 0301

HLSA772 **Healthcare Leadership and Communications**

Credits: 3 Grading Method: Regular, Audit

Health care administrators rely on transformational leadership skills and insights to help their organizations rise to the social financial, public health, and technological challenges of the future. Students will assess and develop their leadership strengths, apply key leadership communication principles, and critically analyze relevent leadership models, exploring their utility in addressing key leadership issues in health care organizations. An underlying theme will be the identification of core values involved in health care delivery, integration of those values in personal and organizational missions, and effective communication to stakeholders.

PCH1	Tracey Manning	Seats (Total: 25)	
	Class time/details on ELMs Sa 9:00am - 6:00pm Su 9:00am - 4:00pm	ONLINE Location: TBA Location: TBA	 Discussion Discussion
	Must be in Public Health Policy & Practice program. For permission to enroll, contact oes@umd.edu. Class discussions are scheduled to meet at the College Park Campus as follows: Sep 8, 9-5pm; Sep 9, 9-4pm; Oct 27, 9-5pm; Dec 1, 9-5pm; Dec 2, 9-4pm.		

HLSA775 **Public Health Research**

Credits: 3 Grading Method: Regular

Prerequisite: EPIB650. Restriction: Must be in a major in SPHL-School of Public Health; or permission of instructor.

Provides an interdisciplinary approach to gaining an understanding of and acquiring the skills to conduct public health research. This course covers policy and social issues, theory, and methods of evaluation and participatory research, from simple community based health programs to large-scale interventions. The course emphasizes experimental and quasi-experimental designs to estimate program impact as well as evaluation of program implementation. Case studies drawn from the public health field illustrate various types of evaluations and participatory research initiatives. Lectures, interactive discussions, group projects, individual projects and related assignments.

0101	Eva DuGoff	Seats (Total: 25)
	Th 7:00pm - 9:45pm	SPH 0302

HLSA785 **Internship in Public Health**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of SPHL-Health Services Administration department. Credit only granted for: HLSA785 or HLSA778.

Internship and seminar providing an opportunity to apply previously acquired knowledge and skills in a health or allied health organization. Setting of the internship will depend upon the student's background and career goals.

0201	Lori Simon-Rusinowitz Contact instructor or department for details.	Seats (Total: 5)
0301	Neil Sehgal Contact instructor or department for details.	Seats (Total: 5)
0401	Andrew Fenelon Contact instructor or department for details.	Seats (Total: 5)
0501	Michel Boudreaux Contact instructor or department for details.	Seats (Total: 5)
0601	Dylan Roby Contact instructor or department for details.	Seats (Total: 5)
0701	Luisa Franzini Contact instructor or department for details.	Seats (Total: 5)
0801	Stephen Thomas Contact instructor or department for details.	Seats (Total: 5)
0901	Jie Chen Contact instructor or department for details.	Seats (Total: 5)
1001	Eva DuGoff Contact instructor or department for details.	Seats (Total: 5)
1101	Susan Passmore Contact instructor or department for details.	Seats (Total: 5)
PLH1	Negin Fouladi Contact instructor or department for details. *Must be in Public Health Policy & Practice program. For permission to enroll, contact oes@umd.edu.*	Seats (Total: 20)

HLSA786 **Capstone Project in Public Health**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of SPHL-Health Services Administration department.

Capstone experience provding opportunity to apply knowledge and skills to a specific public health problem or issue. Completion of project relevant to public health under the direction of an advisor.

Contact department for information to register for this course.

HLSA798 **HLSA Journal Club**

Credits: 1 Grading Method: Sat-Fail, Audit

The course will highlight current topics in health services research. Outside speakers will present their research in a few of the classes. For the other classes, graduate students in the HLSA programs will select important and timely articles that they will present to the class for discussion in an informal setting.

0101	Jie Chen	Seats (Total: 10)
	Th 12:00pm - 12:50pm	Location: TBA

HLSA799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

HLSA898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

HLSA899 **Doctoral Dissertation Research**

(Perm req)

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

HLSC Integrated Life Sciences Fall 2018

HLSC100 **Students in the University: Integrated Life Sciences**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in the Honors College Integrated Life Sciences program. Credit only granted for: EDCP108O, HLSC100, HONR100, or UNIV100H.

In a small classroom setting, Integrated Life Sciences students learn about academic resources on and off campus.

0101	Zabrina Anzyl Tu 2:00pm - 3:15pm	Seats (Total: 25) LPA 0100
	For students in the Honors College Integrated Life Sciences Program only.	
0102	Zabrina Anzyl W 2:00pm - 3:15pm	Seats (Total: 25) LPA 0100
	For students in the Honors College Integrated Life Sciences Program only.	
0103	Zabrina Anzyl Th 2:00pm - 3:15pm	Seats (Total: 25) LPA 0100
0104	Zabrina Anzyl F 2:00pm - 3:15pm	Seats (Total: 25) LPA 0100

HLSC207 **Principles of Biology III Organismal Biology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: (BSCI160 and BSCI161; or BSCI106); and (BSCI170 and BSCI171; or BSCI105). Or students who have taken courses with comparable content may contact the department. Restriction: Must be in the Honors College Integrated Life Sciences program. Credit only granted for: BSCI207, BSCI279D, or HLSC207.

The diversity, structure and function of organisms as understood from the perspective of their common physicochemical principles and unique evolutionary histories.

0101	Todd Cooke MWF 9:00am - 9:50am	Seats (Total: 96) CCC 1205

HLSC374 **Mathematical Modeling in Biology**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH131, MATH136, or MATH141. Restriction: Must be in a major in UGST-HCOL-Integrated Life Sciences Program. Also offered as: BSCI374. Credit only granted for: BSCI374, BSCI474, or HLSC374.

Students will learn empowering mathematical techniques through the understanding of biological models. Models are chosen from a variety of biological disciplines. Mathematical skills that will be developed along the way include: solving non-linear difference equations, eigenvector analysis, and the implementation of these algorithms as computer models.

0101	Jonathan Simon	Seats (Total: 10)	
	TuTh 9:30am - 10:45am	CCC 1111	
	M 1:00pm - 3:50pm	CCC 1111	Lab

HLTH Health Fall 2018

HLTH106 **Drug Use and Abuse**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An interdisciplinary analysis of contemporary drug issues and problems. The course will examine physiological, psychological, social, philosophical, historical, legal and health aspects of drug use and abuse. Special attention will be focused on those general motivations for drug use that attend life on the college campus.

Also offered as HLTH106H.Credit granted for HLTH106 or HLTH106H. Restricted to Majors or non-majors with less than or equal to 45 credits.

0101	Kenneth Beck	Seats (Total: 50)	
	TuTh 12:30pm - 1:45pm	SPH 1312	

HLTH106H **Drug Use and Abuse**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An interdisciplinary analysis of contemporary drug issues and problems. The course will examine physiological, psychological, social, philosophical, historical, legal and health aspects of drug use and abuse. Special attention will be focused on those general motivations for drug use that attend life on the college campus.

Also offered as HLTH106. Credit granted for HLTH106 or HLTH106H.

0101	Kenneth Beck	Seats (Total: 50)	
	TuTh 12:30pm - 1:45pm	SPH 1312	

HLTH124 **Introduction to Behavioral and Community Health**

Credits: 1 Grading Method: Regular, Audit

Restriction: Must be in a major within the SPHL-Behavioral & Community Health department.

Required of first semester Community Health majors to expose them to introductory-level concepts within the field of behavioral and community health as well as the Community Health degree program. Includes discussion on the delivery of behavioral and community health at the local, state, national, and global levels; career opportunities in the diverse sectors of the community health field; undergraduate programmatic information; and strategies for student success.

In-person meeting dates are TBD. See course Canvas/ELMS site for details .

0101	M Reynolds	Seats (Total: 80)
	Tu 2:00pm - 2:50pm Class time/details on ELMs	CSI 3117 ONLINE

HLTH130 **Introduction to Public and Community Health**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS

Restriction: Must not have completed HLTH105; and non-majors must have 45 or fewer credits. Credit only granted for: HLTH105 or HLTH130. Formerly: HLTH105.

An introduction to the theory and practice of public and community health. The influence of public health professionals on the past, present, and future health status of society through the examination of critical health issues will be described. Programming models, theories and policy development are included.

Restricted to Majors or non-majors with less than or equal to 45 credits.

0101	Donna Howard	Seats (Total: 120)
	TuTh 2:00pm - 3:15pm	SPH 1312

HLTH140 **Personal and Community Health**

Credits: 3 | Grading Method: Regular, Audit

Meaning and significance of physical, mental and social health as related to the individual and to society; important phases of national health problems; constructive methods of promoting health of the individual and the community.

Also offered as HLTH140H. Credit granted for HLTH140 or HLTH140H.

0101	James Butler	Seats (Total: 200)
	TuTh 9:30am - 10:45am	ESJ 0224

HLTH140H **Personal and Community Health**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Meaning and significance of physical, mental and social health as related to the individual and to society; important phases of national health problems; constructive methods of promoting health of the individual and the community.

Also offered as HLTH140. Credit granted for HLTH140 or HLTH140H.

0101	James Butler TuTh 9:30am - 10:45am	Seats (Total: 200) ESJ 0224

HLTH200 **Introduction to Research in Community Health**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in Community Health program.

An overview of specific components and steps involved in the community health research process. Content includes, foundations of research, sampling, measurement design, and analysis in a community context.

0101	Azieb Kidanu MWF 2:00pm - 2:50pm	Seats (Total: 110) TWS 0320

HLTH230 **Introduction to Health Behavior**

Credits: 3

Grading Method: Regular, Audit

CORE: SB

General Education: DSHS

Prerequisite: Must have completed or be concurrently enrolled in HLTH130.

Psychological, social psychological, and sociological approaches to the following health areas: development of health attitudes and behavior, patient-provider interaction and the organization of health care.

Restricted to Majors or non-majors with less than or equal to 45 credits.

0101	Craig Fryer TuTh 3:30pm - 4:45pm	Seats (Total: 120) ESJ 1202

HLTH234 **Global Health Messages: Understanding Exposure & Impact.**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

General Education: DSHS, DVCC, SCIS

Using a global perspective, this course teaches students to be critical consumers of current and historical health communication interventions. It also provides students with the skills to develop media interventions that target specific and general populations. Students will discover the array of diverse media messages that influence the health and well-being of individuals and communities.

0101	Dina Borzekowski	Seats (Total: 40)
	Tu 3:30pm - 6:15pm	ARC 1101

HLTH246 **The U.S. Tobacco Epidemic**

Credits: 3 Grading Method: Regular, Audit

Tobacco is the leading cause of preventable death in the U.S. Course provides an overview of the tobacco epidemic including history, health effects, economic costs, policy, surveillance, and prevention, in addition to additional products like e-cigarettes, vaping and hookahs. .

0101	Azieb Kidanu	Seats (Total: 40)
	MWF 11:00am - 11:50am	SPH 0302

HLTH264 **Tweets & Likes: Digital Health & Social Media**

Credits: 3 Grading Method: Regular, Audit General Education: DSHS, SCIS

Examines the current and potential use of digital health and social media to influence public health. Provides an overview of knowledge, skills and terminology necessary to optimize the effectiveness of these technologies to contribute to the enhancement of individual and community health.

0101	Robert Gold	Seats (Total: 40)
	TuTh 11:00am - 12:15pm	SPH 0308

HLTH285 **Controlling Stress and Tension**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: IE General Education: DSHS

Health problems related to stress and tension. Analysis of causative psychosocial stressors and intervening physiological mechanisms. Emphasis on prevention and control of stress through techniques such as biofeedback, meditation and neuromuscular relaxation.

0101	Sharon Desmond	Seats (Total: 60)
	TuTh 8:00am - 9:15am	SPH 1303

HLTH289 **Topical Investigations**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Independent study by an individual student or an experimental course in special areas of knowledge not covered by regularly scheduled courses.

Contact department for information to register for this course.

HLTH292 **Community Health Engagement**

Credits: 3 Grading Method: Regular, Audit General Education: DSSP

Restriction: Must not be in Community Health program.

An exploration and application of basic community health concepts. An integral part of the course is service learning, that includes evaluating, planning and implementing a community health program with a local community partner.

0101	Elizabeth Aparicio	Seats (Total: 40)	
	TuTh 2:00pm - 3:15pm	SPH 1302	

HLTH300 **Biostatistics for Public Health Practice**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: FSAR

Prerequisite: Must have completed or be concurrently enrolled in HLTH200. Restriction: Must be in Community Health program. Also offered as: EPIB300. Credit only granted for: EPIB300 or HLTH300.

An examination of biostatistical concepts and procedures as they relate to contemporary issues in public health. Focus on applications, hands-on-experience, and interpretations of statistical findings in public health research.

Also offered as HLTH300H. Credit granted for HLTH300 or HLTH300H.

0202	Rodman Turpin	Seats (Total: 30)	
	TuTh 11:00am - 11:50am	ARM 0131	
	W 10:00am - 10:50am	CHM 0127	Discussion

HLTH300H **Biostatistics for Public Health Practice**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: FSAR

Prerequisite: Must have completed or be concurrently enrolled in HLTH200. Restriction: Must be in Community Health program. Also offered as: EPIB300. Credit only granted for: EPIB300 or HLTH300.

An examination of biostatistical concepts and procedures as they relate to contemporary issues in public health. Focus on applications, hands-on-experience, and interpretations of statistical findings in public health research.

Also offered as HLTH300. Credit granted for HLTH300 or HLTH300H.

0101	Rodman Turpin TuTh 11:00am - 11:50am M 12:00pm - 12:50pm	Seats (Total: 20) ARM 0131 SPH 0305	Discussion
0102	Rodman Turpin TuTh 11:00am - 11:50am Th 12:30pm - 1:20pm	Seats (Total: 20) ARM 0131 SPH 0302	Discussion
0103	Rodman Turpin TuTh 11:00am - 11:50am Th 2:00pm - 2:50pm	Seats (Total: 20) ARM 0131 PLS 1158	Discussion
0104	Rodman Turpin TuTh 11:00am - 11:50am Th 3:00pm - 3:50pm	Seats (Total: 20) ARM 0131 PLS 1158	Discussion
0105	Rodman Turpin TuTh 11:00am - 11:50am M 9:00am - 9:50am	Seats (Total: 20) ARM 0131 SPH 0308	Discussion
0106	Rodman Turpin TuTh 11:00am - 11:50am M 10:00am - 10:50am	Seats (Total: 20) ARM 0131 SPH 0305	Discussion
0202	Rodman Turpin TuTh 11:00am - 11:50am W 10:00am - 10:50am	Seats (Total: 30) ARM 0131 CHM 0127	Discussion

HLTH301 **Epidemiology for Public Health Practice**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in HLTH300. Restriction: Must be in Community Health program. Also offered as: EPIB301. Credit only granted for: EPIB301 or HLTH301.

An examination of the discipline of epidemiology and its application to public health issues and practices, covering current epidemiological concepts and methods.

Also offered as HLTH301H. Credit granted for HLTH301 or HLTH301H.

0201	Natalie Slopen TuTh 2:00pm - 2:50pm F 9:00am - 9:50am	Seats (Total: 40) ESJ 0224 HBK 0103	Discussion
0202	Natalie Slopen TuTh 2:00pm - 2:50pm F 10:00am - 10:50am	Seats (Total: 40) ESJ 0224 HBK 0115	Discussion

HLTH301H **Epidemiology for Public Health Practice**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in HLTH300. Restriction: Must be in Community Health program. Also offered as: EPIB301. Credit only granted for: EPIB301 or HLTH301.

An examination of the discipline of epidemiology and its application to public health issues and practices, covering current epidemiological concepts and methods.

Also offered as HLTH301. Credit granted for HLTH301 or HLTH301H.

0201	Natalie Slopen TuTh 2:00pm - 2:50pm F 9:00am - 9:50am	Seats (Total: 40) ESJ 0224 HBK 0103	Discussion
0202	Natalie Slopen TuTh 2:00pm - 2:50pm F 10:00am - 10:50am	Seats (Total: 40) ESJ 0224 HBK 0115	Discussion

HLTH325 **Poor in America: Health and Wellbeing**

Credits: 3 Grading Method: Regular, Audit

Recommended: HLTH130; or HLTH140.

Using the ecological framework, students will explore the complicated relationship between poverty and health and well-being in the United States.

0101	Barbara Curbow TuTh 3:30pm - 4:45pm	Seats (Total: 32) SPH 0307	

HLTH325H **Poor in America: Health and Wellbeing**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Recommended: HLTH130; or HLTH140.

Using the ecological framework, students will explore the complicated relationship between poverty and health and well-being in the United States.

0101	Barbara Curbow TuTh 3:30pm - 4:45pm	Seats (Total: 3) SPH 0307	

HLTH366 **Behavioral and Community Issues in Public Health**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: HLTH130, HLTH230, PSYC100, SOCY100, SOCY105, or ANTH260. Restriction: Must be in Public Health Science program; or permission of SPHL-Behavioral & Community Health department. And must have earned a minimum of 45 credits. Additional information: This course will initially be restricted to Public Health Science (PHSC) majors, but could ultimately be opened to other majors, particularly those in HLTH.

The exploration of how social and behavioral science theories and public health concepts and methods can be applied to both the health-illness experience and community interventions.

0101	Evelyn King-Marshall MW 2:00pm - 2:50pm Tu 9:30am - 10:20am	Seats (Total: 24) HJP 0226 PLS 1113	Discussion
0103	Evelyn King-Marshall MW 2:00pm - 2:50pm Tu 12:30pm - 1:20pm	Seats (Total: 24) HJP 0226 HBK 0123	Discussion
0104	Evelyn King-Marshall MW 2:00pm - 2:50pm Th 9:30am - 10:20am	Seats (Total: 24) HJP 0226 BPS 1234	Discussion
0105	Evelyn King-Marshall MW 2:00pm - 2:50pm W 10:00am - 10:50am	Seats (Total: 24) HJP 0226 PLS 1113	Discussion
0106	Evelyn King-Marshall MW 2:00pm - 2:50pm W 11:00am - 11:50am	Seats (Total: 24) HJP 0226 PLS 1113	Discussion

0107	Evelyn King-Marshall MW 2:00pm - 2:50pm W 12:00pm - 12:50pm	Seats (Total: 24) HJP 0226 PLS 1113	 Discussion

HLTH371 **Communicating Safety and Health**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major within SPHL-Behavioral & Community Health department.

The communication and evaluation of safety and health information. Emphasis on various types of communications and recipient factors which contribute to their success or failure.

Also offered as HLTH371H. Credit granted for HLTH371 or HLTH371H.

0101	Devlon Jackson TuTh 2:00pm - 3:15pm *Restriction: Must be a Community Health major.*	Seats (Total: 25) CHM 1402
0201	Devlon Jackson TuTh 2:00pm - 3:15pm *Restriction: Must be a Public Health Science major.*	Seats (Total: 30) CHM 1402

HLTH371H **Communicating Safety and Health**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in a major within SPHL-Behavioral & Community Health department.

The communication and evaluation of safety and health information. Emphasis on various types of communications and recipient factors which contribute to their success or failure.

0101	Devlon Jackson TuTh 2:00pm - 3:15pm	Seats (Total: 25) CHM 1402
0201	Devlon Jackson TuTh 2:00pm - 3:15pm	Seats (Total: 30) CHM 1402

HLTH377 **Human Sexuality**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The biological and developmental aspects of human sexuality; the psychological and emotional aspects of sexual behavior; sexual identity; the historical, cultural, social, linguistic, legal and moral forces affecting sexual issues; the importance of communication, disclosure and intimacy in interpersonal relationships; and research trends in the area of human sexuality.

Also offered as HLTH377H. Credit granted for HLTH377 or HLTH377H.

0101	Jenna Messman MW 2:00pm - 3:15pm	Seats (Total: 200) KEY 0106
FC01	Heather Platter TuTh 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 35) TYD 2106

HLTH377H **Human Sexuality**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

The biological and developmental aspects of human sexuality; the psychological and emotional aspects of sexual behavior; sexual identity; the historical, cultural, social, linguistic, legal and moral forces affecting sexual issues; the importance of communication, disclosure and intimacy in interpersonal relationships; and research trends in the area of human sexuality.

Also offered as HLTH377. Credit granted for HLTH377 or HLTH377H.

0101	Jenna Messman MW 2:00pm - 3:15pm	Seats (Total: 200) KEY 0106

HLTH386 **Experiential Learning**

(Perm req)

Credits: 3-6

Grading Method: Regular, Pass-Fail

Prerequisite: Permission of SPHL-Behavioral & Community Health department. Restriction: Junior standing or higher.

Contact department for information to register for this course.

HLTH389 **Topical Investigations**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Independent study by an individual student or an experimental course in special areas of knowledge not covered by regularly scheduled courses.

Contact department for information to register for this course.

HLTH391 **Making a Difference: Applying Community Health**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Prerequisite: SPHL100, HLTH124, HLTH140, HLTH200, HLTH230, and EPIB301; and must have completed or be concurrently enrolled in HLTH302 and EPIB315. Restriction: Must be in Community Health program.

The exploration and application of community health concepts including theoretical models, advocacy, cultural competency, asset mapping, and needs assessment. Includes planning, implementing and evaluating a community health program with a designated community partner.

Both sections (0101, 0201) shared with HLTH391H.

0201	James Butler, Sylvette La Touche-Howard	Seats (Total: 65)
	TuTh 12:30pm - 1:45pm	CCC 1100

HLTH391H **Making a Difference: Applying Community Health**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Prerequisite: SPHL100, HLTH124, HLTH140, HLTH200, HLTH230, and EPIB301; and must have completed or be concurrently enrolled in HLTH302 and EPIB315. Restriction: Must be in Community Health program.

The exploration and application of community health concepts including theoretical models, advocacy, cultural competency, asset mapping, and needs assessment. Includes planning, implementing and evaluating a community health program with a designated community partner.

0201	James Butler, Sylvette La Touche-Howard	Seats (Total: 5)
	TuTh 12:30pm - 1:45pm	CCC 1100

HLTH410 **Honors Seminar**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: HLTH200; and must have completed 2 other courses in HLTH. Restriction: Minimum cumulative GPA of 3.5; and must have completed 45 credits before applying.

Undergraduate majors with a strong academic record are provided the opportunity to engage in challenging educational experiences related to the social and behavioral aspects of public health. Students will learn the skills and knowledge to develop, propose, defend, and complete an honors thesis or honors project.

0101	Kerry Green M 12:00pm - 3:00pm	Seats (Total: 12) Location: TBA

HLTH420 **Effective Strategies for Public Health Practice**

(Perm req)

Credits: 3 | Grading Method: Regular, Audit | General Education: FSOC

Prerequisite: Minimum grade of C- in HLTH301 and HLTH391. Corequisite: HLTH490.

The purpose of this course is to present the interrelationships of curriculum planning, methodology and the selection and use of successful public health presentation strategies. Special problems associated with public health presentations are discussed, and students become familiar with a variety of resources as well as with planning for and implementing demonstration presentations.

0101	M Reynolds TuTh 9:30am - 10:45am	Seats (Total: 20) SPH 0303
0201	M Reynolds TuTh 11:00am - 12:15pm	Seats (Total: 20) SPH 0301
0301	M Reynolds TuTh 12:30pm - 1:45pm	Seats (Total: 20) SPH 0308

HLTH434 **Introduction to Public Health Informatics**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in one of the following programs (Community Health; Public Health Science) ; and must have earned a minimum of 60 credits. Credit only granted for: HLTH434 or HLTH498E. Formerly: HLTH498E.

Provides an overview of the field of public health informatics and the influence of technology on the public's health and well-being. Emphasizes the application of various technologies and computer/internet applications to support public health research and practice, including strategies to address new and emerging threats.

0101	Sandra Saperstein W 4:00pm - 6:45pm	Seats (Total: 16) SPH 0308

Restriction: Must be a major in Behavioral and Community Health department.

0201	Sandra Saperstein W 4:00pm - 6:45pm	Seats (Total: 24) SPH 0308
	Restriction: Must be a Public Health Science major.	

HLTH460 **Minority Health**

Credits: 3 Grading Method: Regular, Pass-Fail

Prerequisite: HLTH140, HLTH230, or HLTH366; or permission of SPHL-Behavioral & Community Health department. Restriction: Must be in a major within the SPHL-Behavioral & Community Health department.

Health concerns of U.S. ethnic minority groups and factors placing them at elevated risk for disease and injury. Health education concepts and strategies to reduce disparities between their health status and the health status of the general population.

Also offered as HLTH460H. Credit granted for HLTH460 or HLTH460H.

0101	Craig Fryer W 4:00pm - 6:45pm	Seats (Total: 20) SPH 1302
	Restriction: Must be a major in Behavioral and Community Health departm ent.	
0201	Craig Fryer W 4:00pm - 6:45pm	Seats (Total: 31) SPH 1302
	Restriction: Must be a Public Health Science major.	

HLTH460H **Minority Health**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail

Prerequisite: HLTH140, HLTH230, or HLTH366; or permission of SPHL-Behavioral & Community Health department. Restriction: Must be in a major within the SPHL-Behavioral & Community Health department.

Health concerns of U.S. ethnic minority groups and factors placing them at elevated risk for disease and injury. Health education concepts and strategies to reduce disparities between their health status and the health status of the general population.

Also offered as HLTH460. Credit granted for HLTH460 or HLTH460H.

0101	Craig Fryer W 4:00pm - 6:45pm	Seats (Total: 20) SPH 1302

HLTH476 **Death Education**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Examination of the genesis and development of present day death attitudes and behavior by use of a multidisciplinary life cycle approach.

0101	Sharon Desmond TuTh 11:00am - 12:15pm	Seats (Total: 40) CHE 2136

HLTH489 **Field Laboratory Projects and Workshop**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

A course designed to meet the needs of persons in the field with respect to workshop and research projects in special areas of knowledge not covered by regularly structured courses.

Contact department for information to register for this course.

HLTH490 **Professional Preparation in Community Health**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in HLTH391, BSCI170, BSCI171, and BSCI201. Corequisite: HLTH420. Restriction: Must be in Community Health program.

The development of skills necessary for joining the public health work force post-graduation, as well as assistance in obtaining an appropriate internship that will serve as a final semester, capstone experience. Students will be exposed to various relevant professional experiences, and will be afforded the opportunity to strengthen their own individual skills by selecting from a menu of skills-based learning modules that best suit their perceived needs.

0101	Sylvette La Touche-Howard TuTh 11:00am - 12:15pm	Seats (Total: 28) ATL 1114
0201	Tracy Zeeger TuTh 12:30pm - 1:45pm	Seats (Total: 28) LEF 1201

HLTH491 **Community Health Internship**

(Perm req)

Credits: 12 Grading Method: Regular

Prerequisite: Must have completed HLTH490 with a C- or higher. Restriction: Must have completed all program requirements and be in the last semester of the Community Health degree program.

Integrating theory with practice in a community health setting.

Class will meet on Wednesdays (Aug. 29, Sept. 12, Oct. 3, Oct. 31, Dec.5, Dec. 11). Seminar #1 on Aug. 29 meets 8:30am-3pm.

0101	Tracy Kennedy W 12:00pm - 2:50pm Contact instructor or department for details.	Seats (Total: 60) CCC 1205

HLTH652 **Quantitative Research Methods I in Public health**

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Must be in MPH: Community Health Education (Master's) program; or must be in Ph.D.: Public and Community Health (Doctoral) program. Credit only granted for: HLTH652 or HLTH688R. Formerly: HLTH688R.

Intermediate statistics and procedures in public health-related researc for doctoral students. Focuses on applied statistics rather than theoretical, with emphasis on 1) how to apply statistical models, 2) how to perform the analysis with avialable software, and 3) how to interpret findings.

0101	Min Wang Tu 4:00pm - 6:45pm	Seats (Total: 10) SPH 0301

HLTH665 **Health Behavior I**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

The psychological, social psychological, and sociological theories of health behavior. The relation of health knowledge, beliefs, attitudes, intentions, and behavior to preventive, illness, sick-role, and health utilization behaviors.

Restricted to Behavioral and Community Health PhD (BCHL) students only.

0101	Robert Feldman W 4:00pm - 6:45pm	Seats (Total: 12) SPH 0305

HLTH672 **Public Health Informatics**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Instructor permission is required for students not enrolled in a degree seeking program in the School of Public Health. Also offered as: EPIB672. Credit only granted for: HLTH670 or HLTH671, HLTH672, EPIB 672. Formerly: HLTH670. Additional information: Course hashtag - #umdphi12.

A basic overview of Informatics and its application in a public health setting. The major goal is for students to understand the basic tools and building blocks needed to utilize this technology in order to improve their professional productivity

0101	Sandra Saperstein, Robert Gold Tu 7:00pm - 9:45pm	Seats (Total: 25) SPH 0307

HLTH688 **Special Problems in Health Education**

(Perm req)

Credits: 1-6 Grading Method: Regular, Audit

Contact department for information to register for this course.

HLTH688L **Special Problems in Health Education; Health Literacy**

Credits: 3 Grading Method: Regular, Audit

0101	Cynthia Baur Tu 4:00pm - 6:45pm	Seats (Total: 25) SPH 1234A

HLTH710 **Methods and Techniques of Research**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

0101	Kenneth Beck Tu 4:00pm - 6:45pm	Seats (Total: 25) SPH 1302

HLTH712 **Applied Research Methods in Behavioral and Community Health**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: HLTH710.

Designed to build on the research skills obtained in HLTH710 and other fundamental research methods and statistics courses. Methods and problems that are commonly encountered in health education research will be discussed including examination of actual research studies. Complex behavioral research issues will be addressed with existing research data sets. With these data sets, students will develop an analytic plan and conduct data analysis.

0101	Bradley Boekeloo M 4:00pm - 6:45pm	Seats (Total: 10) SPH 0301

HLTH776 **Community Health Program Evaluation**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: HLTH710 and HLTH774. Restriction: Must be in a major within SPHL-Behavioral & Community Health department; or permission of instructor. Credit only granted for: HLTH775 or HLTH774 and HLTH776. Formerly: HLTH775.

An application of basic research methods, and the evaluation of community health programs. Students will evaluate the effectiveness of a community health intervention.

0101	Amelia Arria	Seats (Total: 25)
	Th 4:00pm - 6:45pm	SPH 0308

HLTH785 **Internship in Public Health**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: HLTH665, HLTH775, and HLTH780; or permission of SPHL-Behavioral & Community Health department. Credit only granted for: HLTH785 or HLTH778.

Internship and seminar providing an opportunity to apply previously acquired knowledge and skills in a health or allied health organization. Setting of the internship will depend upon the student's background and career goals.

Class meets on Mondays 7:00-9:00pm (August 27, October 1, December 3).

0101	Tracy Zeeger	Seats (Total: 15)
	M 7:00pm - 9:00pm Contact instructor or department for details.	Location: TBA

HLTH786 **Capstone Project in Public Health**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have completed all required coursework; and permission of SPHL-Behavioral & Community Health department. Restriction: Must be in a major within SPHL-Behavioral & Community Health department.

Capstone experience providing opportunity to apply knowledge and skills to a specific public health problem or issue. Completion of project relevant to public health under the direction of an advisor.

Contact department for information to register for this course.

HLTH799 **Master's Thesis Research**

(Perm req) Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

HLTH898 **Pre-Candidacy Research**

(Perm req) Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

HLTH899 **Doctoral Dissertation Research**

(Perm req) Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

HONR Honors Fall 2018

HONR100 **Honors Colloquium**

Credits: 1 Grading Method: Regular

Restriction: Permission of University Honors Program.

Attendance at various additional activities and events is required. Reading and discussion on the personal and social value of higher education; development of a coherent general education program; exploration of the educational and cultural resources of the campus and metropolitan area; participation in a community service project; and other activities designed to broaden students' conception of what it means to be an educated person.

HONR100 is restricted to first semester University Honors students only.

0101	Liza Lebrun M 4:00pm - 5:30pm	Seats (Total: 16) KEY 0103
0102	Liza Lebrun M 4:00pm - 5:30pm	Seats (Total: 16) JMZ 0103
0103	Liza Lebrun M 4:00pm - 5:30pm	Seats (Total: 16) WDS 1127
0104	Liza Lebrun M 4:00pm - 5:30pm	Seats (Total: 16) KEY 0117
0105	Liza Lebrun M 4:00pm - 5:30pm	Seats (Total: 16) HBK 0103

0106	Liza Lebrun M 4:00pm - 5:30pm	Seats (Total: 16) HAG 1112
0107	Liza Lebrun M 4:00pm - 5:30pm	Seats (Total: 16) KEY 0100
0108	Liza Lebrun M 4:00pm - 5:30pm	Seats (Total: 16) LPA 1125
0109	Liza Lebrun M 4:00pm - 5:30pm	Seats (Total: 16) JMZ 1226
0110	Liza Lebrun M 4:00pm - 5:30pm	Seats (Total: 16) JMZ 2122
0111	Liza Lebrun M 4:00pm - 5:30pm	Seats (Total: 16) CHE 2116
0201	Liza Lebrun Tu 3:30pm - 4:45pm	Seats (Total: 16) JMZ 0122
0202	Liza Lebrun Tu 3:30pm - 4:45pm	Seats (Total: 16) HAG 1112
0203	Liza Lebrun Tu 3:30pm - 4:45pm	Seats (Total: 16) JMZ 0118
0204	Liza Lebrun Tu 3:30pm - 4:45pm	Seats (Total: 16) HBK 1112
0205	Liza Lebrun Tu 3:30pm - 4:45pm	Seats (Total: 16) HAG 1125
0206	Liza Lebrun Tu 3:30pm - 4:45pm	Seats (Total: 16) JMZ 0125
0207	Liza Lebrun Tu 3:30pm - 4:45pm	Seats (Total: 16) JMZ 1215
0208	Liza Lebrun Tu 3:30pm - 4:45pm	Seats (Total: 16) PLS 1164

0209	Liza Lebrun Tu 3:30pm - 4:45pm	Seats (Total: 16) WDS 1114
0210	Liza Lebrun Tu 3:30pm - 4:45pm	Seats (Total: 16) JMZ 2120
0211	Liza Lebrun Tu 3:30pm - 4:45pm	Seats (Total: 16) ARC 1123
0212	Liza Lebrun Tu 3:30pm - 4:45pm	Seats (Total: 16) ATL 2330
0213	Liza Lebrun Tu 3:30pm - 4:45pm	Seats (Total: 16) WDS 1127
0214	Liza Lebrun Tu 3:30pm - 4:45pm	Seats (Total: 16) EGR 1110
0301	Liza Lebrun W 4:00pm - 5:30pm	Seats (Total: 16) JMZ 2122
0302	Liza Lebrun W 4:00pm - 5:30pm	Seats (Total: 16) JMZ 0103
0303	Liza Lebrun W 4:00pm - 5:30pm	Seats (Total: 16) JMZ 2123
0304	Liza Lebrun W 4:00pm - 5:30pm	Seats (Total: 16) WDS 1127
0306	Liza Lebrun W 4:00pm - 5:30pm	Seats (Total: 16) SQH 2113
0307	Liza Lebrun W 4:00pm - 5:30pm	Seats (Total: 16) PLS 1113
0308	Liza Lebrun W 4:00pm - 5:30pm	Seats (Total: 16) JMZ 0120

HONR208L **Honors Seminar; Justice Matters: Law, Literature, and Film**

Credits: 3 Grading Method: Regular General Education: DSHU, SCIS

0101	Sara Schotland TuTh 11:00am - 12:15pm	Seats (Total: 20) PLS 1146

HONR208M Honors Seminar: Utopia and Dystopia: Reality and Relevance

Credits: 3 Grading Method: Regular CORE: HO General Education: DSHU, SCIS

0101	Sara Schotland Tu 2:00pm - 4:30pm	Seats (Total: 20) EGR 3102

HONR209O The Science of Sleep and Biological Rhythms

Credits: 3 Grading Method: Regular CORE: LS General Education: DSNS

0101	David Yager TuTh 12:30pm - 1:45pm	Seats (Total: 20) TWS 1320

HONR217 Life, The Multiverse and Everything: Developing an Individual Cosmovision

Credits: 3 Grading Method: Regular CORE: HO, D General Education: DSHU

In this Honors seminar, students pursue personal cosmologies in light o our contemporary core "Western" scientific world-view and a selection of other ancient and indigenous cosmographies for comparison including those of Mesoamerica, the Inca, the Egyptians or the Chinese.

0101	John Carlson Tu 7:00pm - 9:30pm	Seats (Total: 20) LPA 0124
0201	John Carlson W 7:00pm - 9:30pm	Seats (Total: 20) LPA 0124

HONR218B Honors Seminar; Making a Difference: The Lives and Words of Leaders Who Shape Our Time

Credits: 3 Grading Method: Regular General Education: DSHU, SCIS

0101	Kevin Klose MW 9:30am - 10:45am	Seats (Total: 20) KNI 3202

HONR218C **Honors Seminar; Love Me, Hate Me, Use Me, Save Me: Our Conflicting Views of Animals**

Credits: 3 Grading Method: Regular General Education: DSHS, DSHU, SCIS

0101	Sarah Balcom MWF 9:00am - 9:50am	Seats (Total: 20) ANS 0467

HONR218J **Honors Seminar; Sustainability and Development: From the Individual to the Global**

Credits: 3 Grading Method: Regular General Education: DSHS, SCIS

0101	Dorith Grant-Wisdom TuTh 2:00pm - 3:15pm	Seats (Total: 20) WDS 1130

HONR218L **Honors Seminar: Language and Mind**

Credits: 3 Grading Method: Regular CORE: HO General Education: DSHU

0101	Andrea Zukowski TuTh 3:30pm - 4:45pm	Seats (Total: 20) KEY 0125

HONR218M **Honors Seminar; Elements of Music Composition for Non-Majors**

Credits: 3 Grading Method: Regular General Education: DSSP

0101	William Evans Tu 2:00pm - 4:30pm	Seats (Total: 17) PAC 1108
0201	William Evans Tu 5:30pm - 8:00pm	Seats (Total: 17) PAC 1108

HONR218P **Honors Seminar; Immigration: Personal Stories and Policy Changes**

Credits: 3 Grading Method: Regular General Education: DSHU, DVUP, SCIS

0101	Sara Schotland Th 2:00pm - 4:30pm	Seats (Total: 20) ASY 3221

HONR218T **Honors Seminar; Political Theater: On Stage and in Washington**

Credits: 3 Grading Method: Regular General Education: DSHU

This seminar may have a fee of up to $40.

0101	Nelson Pressley	Seats (Total: 20)
	TuTh 9:30am - 10:45am	ANA 0120

HONR218V **Honors Seminar; Disabiliity culture and Life Narratives**

Credits: 3 Grading Method: Regular General Education: DSHS

0101	Jessica McKechnie	Seats (Total: 20)
	M 2:00pm - 4:30pm	KNI 1103

HONR219L **Honors Seminar; American Idle: The Cultural Politics of Laziness**

Credits: 3 Grading Method: Regular General Education: DSHU, SCIS

0101	Katherine Stanutz	Seats (Total: 20)
	MW 5:00pm - 6:15pm	ASY 3221

HONR228J **Honors Seminar; The Caribbean Amidst the Global: Interrogating Issues of Pirates and Piracy**

Credits: 3 Grading Method: Regular General Education: DSHS, DVUP, SCIS

0101	Dorith Grant-Wisdom	Seats (Total: 20)
	W 1:00pm - 3:30pm	ANA 0120

HONR228N **Alleviating Poverty in Developing Countries: The Economics and Challenges of Development Programs**

Credits: 3 Grading Method: Regular CORE: SB, D General Education: DSHS

0101	Taryn Devereux	Seats (Total: 20)
	TuTh 2:00pm - 3:15pm	VMH 1107

HONR228T **Honors Seminar; Journalism and Peace**

Credits: 3 Grading Method: Regular

0101	Colman McCarthy	Seats (Total: 20)
	M 12:00pm - 2:30pm	ANA 0120

HONR229E **Honors Seminar; Are Sports Ethical?**

Credits: 3 Grading Method: Regular General Education: DSHU, SCIS

0101	Harjit Bhogal TuTh 3:30pm - 4:45pm	Seats (Total: 20) SKN 1112

HONR229L **Honors Seminar; Climate Change: Science, Economics, and Governance**

Credits: 3 Grading Method: Regular General Education: DSNS, SCIS

0101	Ross Salawitch TuTh 12:30pm - 1:45pm	Seats (Total: 21) ATL 3408

HONR238C **The Future of Energy and Climate Policy**

Credits: 3 Grading Method: Regular CORE: IE General Education: DSSP

0101	Tyson Slocum W 3:00pm - 5:30pm	Seats (Total: 20) TWS 1313

HONR238L **Honors Seminar: Engineering in Ancient Empires**

Credits: 3 Grading Method: Regular CORE: SH General Education: DSHS

0101	Denis Sullivan TuTh 12:30pm - 1:45pm	Seats (Total: 20) ASY 3207

HONR238N **Honors Seminar; Public Health and Contemporary Health Issues: Saving Lives Millions at a Time**

Credits: 3 Grading Method: Regular General Education: DSHS

0101	Kirsten Stoebenau W 1:00pm - 3:45pm	Seats (Total: 20) SPH 1234A

HONR238R **Honors Seminar: Terrorism**

Credits: 3 Grading Method: Regular CORE: SH General Education: DSHS

0101	Howard Smead M 4:00pm - 6:30pm	Seats (Total: 20) TLF 1103

HONR238U **Honors Seminar; Making the World a Better Place: Global Development and Justice**

Credits: 3 Grading Method: Regular General Education: DSHU

0101	Karol Soltan	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	SKN 1112

HONR239C **Honors Seminar: The Creative Process in Dance**

Credits: 3 Grading Method: Regular CORE: HA, D General Education: DSHU

0101	Kendra Portier	Seats (Total: 15)
	MW 11:00am - 12:15pm	PAC 1611

HONR239D **Honors Seminar; Introduction to Printmaking**

Credits: 3 Grading Method: Regular General Education: DSSP

Students must pay a $40.00 studio lab fee.

0101	Matthew McLaughlin	Seats (Total: 12)
	MW 3:30pm - 6:00pm	ASY 1317

HONR239J **Honors Seminar; "Enemy of the People": When Journalism Investigates the Powerful**

Credits: 3 Grading Method: Regular General Education: DSHS, SCIS

Credit will only be granted for HONR239J or JOUR289P.

0101	Mark Feldstein	Seats (Total: 20)
	W 2:00pm - 4:30pm	KNI 3200

HONR239N **Honors Seminar; Colonial Consequences: American Archaeology in the Era of Colonialism**

Credits: 3 Grading Method: Regular General Education: DSHS, DVUP

0101	Barnet Pavao-Zuckerman	Seats (Total: 20)
	TuTh 3:30pm - 4:45pm	WDS 0104

HONR248H **Honors Seminar: From Willowbrook to Attica: Delinquency in the Context of Disability**

Credits: 3 Grading Method: Regular CORE: SB, D General Education: DSHS, DVUP

0101	Peter Leone M 1:00pm - 3:50pm	Seats (Total: 20) HBK 0103

HONR248J Honors Seminar; A Most Human Nation

Credits: 3 Grading Method: Regular General Education: DSHU, DVUP, SCIS

Students who have taken HHUM205 should contact the instructor for permission.

0101	Ingrid Satelmajer TuTh 12:30pm - 1:45pm	Seats (Total: 20) JMZ 0103

HONR249L The Historical Development of London

Credits: 3 Grading Method: Regular CORE: SH

Contact department for information to register for this course.

HONR258E Honors Seminar; Creating the Future through Systemic Thinking and Design

Credits: 3 Grading Method: Regular General Education: DSSP

0101	Gerald Suarez MW 3:30pm - 4:45pm	Seats (Total: 20) ASY 3219

HONR258O Honors Seminar; The Kinesiological Bases of Skilled Performance

Credits: 3 Grading Method: Regular

0101	Seppo Iso-Ahola TuTh 2:00pm - 3:15pm	Seats (Total: 20) SPH 0303

HONR258R Honors Seminar; Soundtrack to Revolution: Black Protest Music from the Slave Ship to Soundcloud

Credits: 3 Grading Method: Regular General Education: DSHU, DVUP

0101	La Marr Bruce Tu 3:30pm - 6:00pm	Seats (Total: 20) TWS 1321

HONR258T **Honors Seminar: Tools of Fiction: Literature and/as Creative Writing**

Credits: 3 | Grading Method: Regular | CORE: HL | General Education: DSHU

0101	Dean Hebert	Seats (Total: 20)
	TuTh 5:00pm - 6:15pm	LPA 0124

HONR258W **Honors Seminar: Demystifying LGBTQ Issues**

Credits: 3 | Grading Method: Regular | , D | General Education: DVUP

0101	Robyn Zeiger	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	SPH 0307

HONR259G **Honors Seminar; Fairness, Inequality, and Democracy**

Credits: 3 | Grading Method: Regular | General Education: DSHS, SCIS

0101	Allan Drazen	Seats (Total: 20)
	MW 2:00pm - 3:15pm	TYD 1118

HONR259K **Honors Seminar; Global Inequality: Research and Practice**

Credits: 3 | Grading Method: Regular | General Education: DSHS, SCIS

0101	Roberto Korzeniewicz	Seats (Total: 20)
	TuTh 12:30pm - 1:45pm	ASY 2115

HONR259L **Honors Seminar; Thinking Strategically**

Credits: 3 | Grading Method: Regular | General Education: FSAR

0101	Daniel Vincent	Seats (Total: 20)
	TuTh 2:00pm - 3:15pm	TYD 1114

HONR259P **Honors Seminar; Jane Austen: Her World, Our Obsession**

Credits: 3 | Grading Method: Regular | General Education: DSHU

0101	Ingrid Satelmajer	Seats (Total: 20)
	TuTh 3:30pm - 4:45pm	HBK 0123

HONR268L **Honors Seminar: United States Immigration Issues**

Credits: 3 | Grading Method: Regular | CORE: SB, D | General Education: DSHS, DVUP, SCIS

0101	Dorith Grant-Wisdom	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	JMZ 3205

HONR268N **Honors Seminar; Cracking the Secrets of the Universe Using Computers: Re-discovering the Higgs and Searching for Invisible Matter**

(Perm req)

Credits: 3 | Grading Method: Regular | General Education: DSNS, DSSP, SCIS

This course is part of a two-semester Honors research seminar. Part two of this series will be offered in the Spring 2019 Semester. For more information about the course, please visit physics.umd.edu/courses/Honr268N/. For permission to enroll, please contact Dr. Shabnam Jabeen at Jabeen@umd.edu.

0101	Shabnam Jabeen, Sarah Eno	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	PHY 3301

HONR269P **Honors Seminar; Formulating U.S. Science and Technology Policy**

Credits: 3 | Grading Method: Regular | General Education: DSSP

0101	Henry Lucas	Seats (Total: 20)
	TuTh 12:30pm - 1:45pm	VMH 2509

HONR269T **Honors Seminar: Understanding U.S. Foreign Policy toward Afghanistan**

Credits: 3 | Grading Method: Regular | CORE: SB, D | General Education: DSHS, SCIS

This is a Global Classroom course. There will be approximately 3 to 4 classes where this course will meet on a Saturday or Sunday morning for videoconferencing with students in Kabul, Afghanistan instead of meeting at its normal weekly time on Thursday nights (exact dates and times are TBA).

0101	Temim Nusraty	Seats (Total: 10)
	Th 6:30pm - 9:00pm	ANA 0120

HONR269U **Honors Seminar; Hidden Figures: Race, Science, and Black Narrative**

Credits: 3 | Grading Method: Regular | General Education: DSHU, DVUP

0101	Mary Washington	Seats (Total: 20)
	TuTh 12:30pm - 1:45pm	TWS 3136

HONR269V **Honors Seminar; Virus Hunting: Emerging Diseases, Social Conteoversies and Nano-Technologies**

Credits: 3 Grading Method: Regular General Education: DSNS

0101	James Culver	Seats (Total: 20)
	TuTh 9:30am - 10:45am	PLS 5112

HONR278D **Honors Seminar; National Security Dilemmas**

Credits: 3 Grading Method: Regular General Education: DSHS, SCIS

0101	Daniel Rosenthal	Seats (Total: 20)
	M 7:00pm - 9:45pm	TWS 1320

HONR278G **Honors Seminar; Exploring How Foreign Policy Is Developed**

Credits: 3 Grading Method: Regular General Education: DSHS

0101	Temim Nusraty	Seats (Total: 20)
	M 6:30pm - 9:00pm	ANA 0120

HONR278K **Honors Seminar; Evolutionary Processes in Health Medicine**

Credits: 3 Grading Method: Regular General Education: DSNS, SCIS

0101	Charles Delwiche	Seats (Total: 20)
	MW 3:00pm - 4:15pm	MCB 1123

HONR278Q **Honors Seminar; Biodiversity Matters: Effects on Health, National Security, Development, and Design**

Credits: 3 Grading Method: Regular General Education: DSNS

0101	Karen Lips	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	PLS 1164

HONR278Z **Honors Seminar; The Philosophy and Practice of Yoga**

Credits: 3 Grading Method: Regular General Education: DSHU, SCIS

0101	Susan Dwyer Tu 9:30am - 10:45am Th 9:30am - 10:45am	Seats (Total: 20) ASY 3221 PKT 2102

HONR279B Honors Seminar; Social Security in a Changing America

Credits: 3 Grading Method: Regular General Education: DSHS

0101	Scott Szymendera M 7:00pm - 9:30pm	Seats (Total: 20) JMZ 1117

HONR279K Honors Seminar; Magic, Science, and Religion

Credits: 3 Grading Method: Regular General Education: DSHU, SCIS

0101	Maxine Grossman TuTh 11:00am - 12:15pm	Seats (Total: 20) SQH 2120

HONR279L Honors Seminar; The Problem of Prejudice: Overcoming Impediments to Global Peace and Justice

Credits: 3 Grading Method: Regular General Education: DSHU, SCIS

0101	Hoda Mahmoudi Tu 2:30pm - 5:00pm	Seats (Total: 20) CHT 2113

HONR279M Honors Seminar; How Does the Brain Speak?: Insights from Neuroimaging and Brain Damage

Credits: 3 Grading Method: Regular General Education: DSHS, SCIS

0101	Yasmeen Shah TuTh 9:30am - 10:45am	Seats (Total: 20) SQH 1107

HONR279Q Honors Seminar; The Boy Who Lived, All Grown Up: Assessing the Harry Potter Books and their Adaptations

Credits: 3 Grading Method: Regular General Education: DSHU

0101	Michelle Butler	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	JMZ 0103

HONR288O **Honors Seminar: Why Do Things Fail?**

Credits: 3 Grading Method: Regular CORE: PS General Education: DSNS, SCIS

This course is open only to non-engineering majors. High school math and science are adequate for understanding of the material.

0101	Kevin Calabro	Seats (Total: 20)
	TuTh 9:30am - 10:45am	ATL 1114

HONR288P **Honors Seminar; Why Do Things Burn?**

Credits: 3 Grading Method: Regular General Education: DSNS

This course is open only to non-engineering majors.

0101	Marino diMarzo	Seats (Total: 20)
	TuTh 12:30pm - 1:45pm	CHE 2118

HONR289N **Honors Seminar; From Fat to Fit to Olympic Gold: Physical Activity in health and Human Performance**

Credits: 3 Grading Method: Regular General Education: DSNS, SCIS

0101	Colleen Farmer	Seats (Total: 20)
	W 2:00pm - 4:30pm	SPH 1303

HONR299C **Honors Seminar; Fashion and Costumes Through the Ages**

Credits: 3 Grading Method: Regular General Education: DSHU

0101	Mikhail Kachman	Seats (Total: 20)
	TuTh 3:30pm - 4:45pm	PAC 1809

HONR299F **Honors Seminar; Financial Crises: The Foundation of Global Tension**

Credits: 3 Grading Method: Regular General Education: DSSP, SCIS

0101	Behzad Gohari	Seats (Total: 20)
	W 6:00pm - 8:30pm	VMH 1203

HONR299G **Honors Seminar; Revolution, Regret, and Reform: The People and Principles of the American Political Tradition**

Credits: 3 Grading Method: Regular General Education: DSHS

0101	Robert Chiles	Seats (Total: 20)
	Th 6:00pm - 8:30pm	KEY 0124

HONR299I **Honors Seminar; The Practice of Science in an Age of Truthiness**

Credits: 3 Grading Method: Regular General Education: DSNS, SCIS

0101	Christopher Capp	Seats (Total: 20)
	TuTh 9:30am - 10:45am	JMZ 1103

HONR348D **Advanced Honors Seminar; Innovation and Social Change: Do Good Now**

Credits: 3 Grading Method: Regular General Education: DSSP, SCIS

A series of seminars, often interdisciplinary and sometimes team taught The subjects will vary from semester to semester.

0101	Toby Egan	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	TWS 1321

HONR348J **Advanced Honors Seminar; Contemporary Social Issues**

Credits: 3 Grading Method: Regular General Education: DVCC

A series of seminars, often interdisciplinary and sometimes team taught The subjects will vary from semester to semester.

0101	Howard Smead	Seats (Total: 20)
	W 4:00pm - 6:30pm	TLF 1103

HONR349V **Honors Colloquium; Dubai: Global Immersion Experience**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

A series of seminars, often interdisciplinary and sometimes team taught. Subjects may vary.

Contact department for information to register for this course.

HONR358A **Honors Practicum**

Credits: 3 Grading Method: Sat-Fail

For student section leaders of HONR100 or HONR200.

Contact department for information to register for this course.

HONR358B **Honors Practicum**

Credits: 3 Grading Method: Sat-Fail

For student section leaders of HONR100 or HONR200.

Contact department for information to register for this course.

HONR358C **Honors Practicum**

Credits: 3 Grading Method: Sat-Fail

For student section leaders of HONR100 or HONR200.

Contact department for information to register for this course.

HONR359A **Honors Workshop**

Credits: 3 Grading Method: Sat-Fail

Honors workshops are small seminar classes which concentrate on skill development.

Contact department for information to register for this course.

HONR359B **Honors Workshop; Alternatives to Violence**

Credits: 3 Grading Method: Sat-Fail

Honors workshops are small seminar classes which concentrate on skill development.

0101	Colman McCarthy	Seats (Total: 20)
	M 2:30pm - 5:00pm	ANA 0120

HONR359L **Honors Workshop; Leading Honors Colloquium**

(Perm req)

Credits: 2 Grading Method: Sat-Fail

Honors workshops are small seminar classes which concentrate on skill development.

Contact department for information to register for this course.

HONR368A **Advanced Honors Seminar; MGA Legislative Seminar**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: FSPW

A series of seminars, often interdisciplinary in character and sometimes team-taught. The subjects will vary from semester to semester.

Also offered as ENGL381. Credit only granted for one of the following: ENGL381 or HONR368A. Admission to this course is by application only.

0101	Thomas Lowderbaugh	Seats (Total: 15)
	Tu 3:30pm - 6:00pm	TWS 0232

HONR378A **Advanced Honors Seminar; U.S. Diplomacy and Policymaking**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

A series of seminars, often interdisciplinary in character and sometimes team-taught. The subjects will vary from semester to semester.

Also offered as FGSM 360. Credit granted for FGSM360 or HONR378A. Students must be in the Global Fellows Program to register.

0101	William Usher, Ylber Bajraktari	Seats (Total: 25)
	Th 7:30pm - 10:00pm	KNI 1105

HONR378B **Advanced Honors Seminar; Responses to Global Challenges**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

A series of seminars, often interdisciplinary in character and sometimes team-taught. The subjects will vary from semester to semester.

Also offered as FGSM380. Credit granted for FGSM380 or HONR378B. Students must be in the Global Fellows Program to register. An examination of global issues and responses primarily from the perspective of the practitioner. The focus will be on social, humanitarian, and human rights issues in different global contexts.

0101	Rhoda Margesson	Seats (Total: 25)
	W 5:30pm - 8:30pm	AJC 2134

HONR378C **Advanced Honors Seminar; Political Engagement and Advocacy**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

A series of seminars, often interdisciplinary in character and sometimes team-taught. The subjects will vary from semester to semester.

Students must be in the Federal Fellows Program to register. Also offered as FGSM310. Credit only granted for FGSM310 or HONR378C.

0101	Dale Crowell Tu 6:30pm - 9:30pm	Seats (Total: 25) SYM 0215

HONR378D **Advanced Honors Seminar; Science Diplomacy: Foreign Policy and Science, Technology, and Innovation**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

A series of seminars, often interdisciplinary in character and sometimes team-taught. The subjects will vary from semester to semester.

Also offered as FGSM370. Credit granted for FGSM370 or HONR378D. Students must be in the Global Fellows Program to register. An exploration of the critical roles scientific knowledge and technological innovation play in the formation and implementation of foreign policy issues, including energy and climate change, public health, space and innovation, and economic development.

0101	Jonathan Margolis, Griffin Thompson W 5:00pm - 8:00pm	Seats (Total: 25) SQH 1101

HONR378E **Advanced Honors Seminar; Public Health Policy**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

A series of seminars, often interdisciplinary in character and sometimes team-taught. The subjects will vary from semester to semester.

Students must be in the Federal Fellows Program to register. Also offered as FGSM320. Credit granted for FGSM320 or HONR378E. An exploration of the major questions and issues facing the U.S. health care system as well as the formulation and implementation of health policy.

0101	Elaine Anderson, Samuel Kessel Tu 3:30pm - 6:30pm	Seats (Total: 25) SPH 0308

HONR378G **Advanced Honors Seminar; Homeland and National Security Policy**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

A series of seminars, often interdisciplinary in character and sometimes team-taught. The subjects will vary from semester to semester.

Also offered as FGSM 330. Credit granted for FGSM330 or HONR378G. Students must be in the Federal Fellows Program to register.

0101	Magdalena Bajll M 6:30pm - 9:30pm	Seats (Total: 25) PLS 1117
	Students must be in the Federal Fellows Program to register.	

HONR378J **Advanced Honors Seminar; Energy and Environmental Policy**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

A series of seminars, often interdisciplinary in character and sometimes team-taught. The subjects will vary from semester to semester.

Students must be in the Federal Fellows Program to register. Also offered as FGSM340. Credit granted for FGSM340 or HONR378J. An examination of issues of energy and environmental sustainability through an investigation of policy-making in energy, climate change, and sustainable development.

0101	Thomas Carter, Ed Fendley Tu 3:30pm - 6:30pm	Seats (Total: 25) HBK 0125

HONR378K **Advanced Honors Seminar; Critical Regions and International Relations**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

A series of seminars, often interdisciplinary in character and sometimes team-taught. The subjects will vary from semester to semester.

Also offered as FGSM350. Credit granted for FGSM350 or HONR378K. Students must be in the Global Fellows Program to register. An examination of international relations and foreign policy challenges in critical regions.

0101	Danusia Hubah Th 7:00pm - 10:00pm	Seats (Total: 25) PLS 1113

HONR379 **Honors Independent Study**

(Perm req)

Credits: 3

Grading Method: Regular

Involves reading or research directed by individual faculty, especially in areas outside of the student's major. Open only to University honors students.

Available only to University honors students.

Contact department for information to register for this course.

HONR379A **Honors Independent Study**

Credits: 2 Grading Method: Regular

Involves reading or research directed by individual faculty, especially in areas outside of the student's major. Open only to University honors students.

Contact department for information to register for this course.

IDEA Academy for Innovation & Entrepreneurship Fall 2018

IDEA247 **Introduction to Peer Innnovation Coaching**

(Perm req)

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Restriction: Sophomore standing or higher; and permission of Academy for Innovation and Entrepreneurship. Credit only granted for: IDEA247 or IDEA250. Formerly: IDEA250. Additional information: Participation in the course requires students to submit an application, be interviewed and selected by the Academy for Innovation and Entrepreneurship.

Prepares you as an Academy for Innovation and Entrepreneurship Peer Innovation Coach (PIC), where you will be coaching and guiding student teams in the classroom as they experiment with using the design thinking process. You will first have the opportunity to sharpen your own understanding of the design thinking process by applying it to a team design challenge, as well as further explore each step through readings, discussion and reflection. You will then focus on the concept of creativity and learning about the mindsets that are conducive to innovation. Towards the end of the semester, you will focus on the theories and methods related to effective coaching. Throughout the course, you will observe and practice coaching alongside AIE Facilitators as they teach design thinking modules in various courses across campus. As you get more familiar and comfortable with the design thinking curriculum, you will have the opportunity to facilitate parts of classes or activities at some of our workshops and special events, such as departmental/campus-wide design challenges.

Contact department for information to register for this course.

IDEA258A **Special Topics in Innovation; Becoming a Design Thinker: Mindsets and Tools for Innovation**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Special topics in innovation

This introductory course allows students to try on the behaviors of a creative problem-solver, leveraging the methods and tools of design thinking, a human-centered innovation process. This is a highly experiential, often experimental course. All majors are encouraged to apply.

0101	Meenu Singh, Nicole Mogul	Seats (Total: 20)
	M 2:00pm - 3:15pm	ESJ 2101

IDEA258D **Special Topics in Innovation; Explorations in Design**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Special topics in innovation

Explorations in Design will allow students to apply their unique backgrounds to the realm of design. Students will learn through hands-on experiences with real clients from various industries. We will explore how good and bad design plays a role in our everyday lives -- from the way we order coffee to the logos you see to the signs that help you navigate (or get lost on) the metro.

0101	Meenu Singh	Seats (Total: 20)
	Th 12:00pm - 1:30pm	ESJ 2101

IDEA258Z **Special Topics in Innovation; Digital Product Design**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Special topics in innovation

This course will introduce Students to user-centric design processes for websites and apps. Students will get to apply their startups and use their design skills to build a digital product of their own. This class is for all kinds of creatives.

0101	Meenu Singh	Seats (Total: 18)
	Th 2:00pm - 3:15pm	ESJ 2101

IDEA369 **Peer Innovation Coaching**

(Perm req)

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Deepen your role as an Academy for Innovation and Entrepreneurship Peer Innovation Coach (PIC), where you will be coaching and guiding student teams in the classroom as they learn to use innovation methods. There is both an experiential component and a classroom component. The experiential component involves coaching and teaching innovation class sessions throughout campus, and the classroom component involves discussions, reflection assignments and scenario role-playing to help improve your coaching and teaching. While some of the content in the classroom component will be seeded by a set of course readings, much of it will also be seeded by your own experiences in the experiential component.

Contact department for information to register for this course.

IDEA498 **Independent Study: Experiments in Innovation**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

It's your turn to drive. An opportunity to apply design thinking and/or lean startup concepts to your own real-world project, which may involve a partner organization. High degree of self-direction in all aspects of the project including defining specific milestones and deliverables. Regular coaching from an Academy for Innovation and Entrepreneurship team member.

Contact department for information to register for this course.

IMMR Immigration Studies Fall 2018

IMMR200 **Introduction to Immigration and Migration Studies**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Introduces concepts and theoretical interpretations about the causes of international migration; provides an historical overview of the main flows of immigration to the U.S.; analyzes economic, political, social, and cultural aspects that impact the immigrants' settlement process.

0101	Andres Villarreal	Seats (Total: 30)
	TuTh 3:30pm - 4:45pm	TYD 0102

IMMR419J **Special Topics in Immigration and Migration Studies; Globalization and the Diversifying US**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Thematic exploration of a topic in immigration or migration studies history with emphasis on understanding how the movement of people is relevant in the contemporary world.

Also offered as USLT498N and AMST498W. Credit granted for USLT498N, AMST498W, or IMMR419J. Prerequisite: At least three credit hours of prior coursework in AMST.

0101	Jacqueline Partida	Seats (Total: 35)	
	TuTh 9:30am - 10:45am	SQH 1101	

INAG Institute of Applied Agriculture Fall 2018

INAG099 **Cooperative Education**

(Perm req)

Credits: 0 Grading Method: Sat-Fail

Restriction: Co-op is open to sustainable agriculture and agricultural business management students who have completed a minimum of 45 credit hours, have a minimum GPA of 2.0, and have advisor's permission. Cooperative Education, the culminating 22-week field experience in your program, is a collaborative partnership between the Institute of Applied Agriculture and the employer to provide a quality academic and practical training for students. Each student's co-op will vary according to the unique career direction the student wishes to pursue and is intended to accompany seminars and activities previously acquired in the IAA program. Upon completion of the course, students will have established contacts in the industry and substantial documentation to develop a personal portfolio.

0101	Meredith Epstein	Seats (Total: 15)	
	Contact instructor or department for details.		

INAG100 **Introduction to Plant Science**

Credits: 4 Grading Method: Regular

Restriction: Must be a student in the Institute of Applied Agriculture; or permission of AGNR-Institute of Applied Agriculture department. Credit only granted for: INAG100, PLSC100, or PLSC101.

A general introduction to plant science designed to provide the students with a working knowledge of the fundamental structures and processes of plants. Content includes plant anatomy, physiology, genetics and environmental relationships.

0101	Kenneth Ingram	Seats (Total: 15)	
	MWF 8:00am - 8:50am	JUL 1123	
	W 9:00am - 10:50am	JUL 1111	Lab
0102	Kenneth Ingram	Seats (Total: 15)	
	MWF 8:00am - 8:50am	JUL 1123	
	F 9:00am - 10:50am	JUL 1111	Lab

INAG102 **Agricultural Entrepreneurship**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in AGNR-College of Agriculture & Natural Resources; or permission of AGNR-Institute of Applied Agriculture department. Additional information: Priority in enrollment will be given to students within the Institute of Applied Agriculture. May not count toward any BMGT major or minor requirement.

This course introduces fundamental concepts related to launching a profitable agricultural business. Topics include idea generation, opportunity recognition, conducting feasibility studies, assembling the entrepreneurial team, and financing the new venture, among others. Students will learn knowledge and skills relevant to starting a new agricultural business.

0101	Larisa Cioaca	Seats (Total: 35)
	MWF 12:00pm - 12:50pm	JUL 1123

INAG103 **Agricultural Marketing**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in AGNR-College of Agriculture & Natural Resources; or permission of AGNR-Institute of Applied Agriculture department. Additional information: Priority in enrollment will be given to students within the Institute of Applied Agriculture. Course cannot be used to fulfill a requirement for a Robert H. Smith School of Business major or minor.

Principles of market demand are used to develop a consumer oriented market strategy for agricultural businesses. Topics include market structures, target marketing, market segmentation, niche marketing and direct marketing. Market concepts unique to agriculture products are also covered.

0101	Meredith Epstein	Seats (Total: 25)
	MWF 11:00am - 11:50am	JUL 1123

INAG106 **Pesticide Use and Safety**

Credits: 2 Grading Method: Regular, Audit

Additional information: Priority enrollment will be given to students in the IAA program or to students in the College of Agriculture and Natural Resources (AGNR).

An overview of pesticide use and safety. Topics include environmental protection, labeling, personal safety, first aid, formulation and chemistry, equipment, disposal, storage, record-keeping and liability. The course prepares students to take the Maryland State test for a private applicator's license.

0101	Ronald Myers	Seats (Total: 30)
	Class time/details on ELMs	ONLINE

INAG110 **Oral Communication**

Credits: 3 | Grading Method: Regular, Audit | General Education: FSOC

Credit only granted for: COMM107, COMM200, INAG110, JOUR130, THET285.

A study of how perception, self-concept, verbal and nonverbal communications affect the communication process as it emerges in the work place. The course provides skill training in speech writing, public speaking, group communication, interpersonal communication, listening, and responding.

0101	Eric Dunning MWF 8:00am - 8:50am	Seats (Total: 19) ATL 2352
0201	Amy Fisher MWF 8:00am - 8:50am	Seats (Total: 19) JMP 2202
0301	Edward Priola MWF 10:00am - 10:50am	Seats (Total: 19) ATL 0201
0401	Eric Dunning MWF 9:00am - 9:50am	Seats (Total: 19) ATL 1106
0501	Amy Fisher MWF 9:00am - 9:50am	Seats (Total: 19) JMP 2202
0701	Amy Fisher MWF 10:00am - 10:50am	Seats (Total: 19) JMP 2202
0801	Robert Ballenger MWF 10:00am - 10:50am	Seats (Total: 19) PLS 1115
0901	Anthony Pagnotti, Michelle Molinaro MWF 11:00am - 11:50am	Seats (Total: 19) CCC 1111
1001	Edward Priola MWF 11:00am - 11:50am	Seats (Total: 19) ATL 2316
1101	Robert Ballenger MWF 11:00am - 11:50am	Seats (Total: 19) PLS 1115
1201	Michelle Molinaro MWF 12:00pm - 12:50pm	Seats (Total: 19) JMP 1202

1301	Amy Fisher, Anthony Pagnotti MWF 12:00pm - 12:50pm	Seats (Total: 19) ATL 0201
1401	Samuel Rubin MWF 12:00pm - 12:50pm	Seats (Total: 19) ITV 1111
1501	Michelle Molinaro MWF 1:00pm - 1:50pm	Seats (Total: 19) JMP 1202
1601	Edward Priola MWF 1:00pm - 1:50pm	Seats (Total: 19) ATL 2316
1701	Samuel Rubin MWF 1:00pm - 1:50pm	Seats (Total: 19) ITV 1111
1801	Michelle Molinaro MWF 2:00pm - 2:50pm	Seats (Total: 19) ANS 0412
1901	Robert Ballenger MWF 2:00pm - 2:50pm	Seats (Total: 19) JMZ 3203
2001	Samuel Rubin MWF 2:00pm - 2:50pm	Seats (Total: 19) ITV 1111
2101	JoEllen Barnhart MW 3:00pm - 4:15pm	Seats (Total: 19) CHE 2140
2201	JoEllen Barnhart M 6:00pm - 8:45pm	Seats (Total: 19) HBK 1108
2301	JoEllen Barnhart W 6:00pm - 8:45pm	Seats (Total: 19) HBK 1108
2401	Amy Fisher TuTh 8:00am - 9:15am	Seats (Total: 19) PLS 1146
2501	Eric Dunning TuTh 8:00am - 9:15am	Seats (Total: 19) EGR 3106
2601	Amy Fisher TuTh 9:30am - 10:45am	Seats (Total: 19) PLS 1172

2701	Eric Dunning TuTh 9:30am - 10:45am	Seats (Total: 19) EGR 3106
2801	Edward Priola TuTh 9:30am - 10:45am	Seats (Total: 19) JUL 1105
2901	Edward Priola TuTh 11:00am - 12:15pm	Seats (Total: 19) JUL 1105
3001	Anthony Pagnotti, Amy Fisher TuTh 11:00am - 12:15pm	Seats (Total: 19) ATL 2316
3101	Eric Dunning TuTh 11:00am - 12:15pm	Seats (Total: 19) CHE 2116
3201	Michelle Molinaro TuTh 12:30pm - 1:45pm	Seats (Total: 19) JMZ 2122
3301	JoEllen Barnhart, Anthony Pagnotti TuTh 12:30pm - 1:45pm	Seats (Total: 19) ATL 2316
3401	Robert Ballenger TuTh 12:30pm - 1:45pm	Seats (Total: 19) JMZ 3205
3501	Michelle Molinaro TuTh 2:00pm - 3:15pm	Seats (Total: 19) JMZ 2123
3601	Robert Ballenger TuTh 2:00pm - 3:15pm	Seats (Total: 19) PLS 1172
3701	Samuel Rubin TuTh 2:00pm - 3:15pm	Seats (Total: 19) PLS 1176
3801	Samuel Rubin TuTh 3:30pm - 4:45pm	Seats (Total: 19) PLS 1176
3901	JoEllen Barnhart TuTh 3:30pm - 4:45pm	Seats (Total: 19) CHE 2116
4001	JoEllen Barnhart TuTh 5:00pm - 6:15pm	Seats (Total: 19) JUL 1105

INAG110S **Oral Communication**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: FSOC

Credit only granted for: COMM107, COMM200, INAG110, JOUR130, THET285.

A study of how perception, self-concept, verbal and nonverbal communications affect the communication process as it emerges in the work place. The course provides skill training in speech writing, public speaking, group communication, interpersonal communication, listening, and responding.

Restricted to College Park Scholars.

0601	Anthony Pagnotti, Eric Dunning MWF 10:00am - 10:50am	Seats (Total: 19) CCC 1111

INAG123 **Introduction to Sustainable Agriculture**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP, SCIS

An introductory course that provides an overview of the principles and practices of sustainable agriculture. Students explore the economic, social, and environmental impacts of agriculture and relate the principles of sustainability to various agricultural production practices and systems.

0101	Meredith Epstein W 3:00pm - 6:00pm	Seats (Total: 25) JUL 1123

INAG199 **Special Problems**

Credits: 1-3 | Grading Method: Regular

Restricted to students in the AGNR-Institute of Applied Agriculture department. Others by permission of the AGNR-Institute of Applied Agriculture department. A detailed study, including a written report, involving a current issue in an agricultural area that relates to the student's major. The study is conducted under the direction of a faculty member. A maximum of three credit hours of special problems may be applied toward graduation.

0101	Geoffrey Rinehart Contact instructor or department for details.	Seats (Total: 10)
0201	Meredith Epstein Contact instructor or department for details.	Seats (Total: 10)
0301	Kenneth Ingram Contact instructor or department for details.	Seats (Total: 10)

0401	Roy Walls Contact instructor or department for details.	Seats (Total: 10)
0501	Larisa Cioaca Contact instructor or department for details.	Seats (Total: 10)
0601	Glori Hyman Contact instructor or department for details.	Seats (Total: 10)

INAG199C **Special Problems; Special Problems in AgriScience**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Students must successfully complete an accredited high school agriculture program with a minimum of 4 agriculture courses with a minimum grade of B in each course. Demonstrates the application of scientific principles of agriculture by developing and presenting an oral report on a capstone project relevant to ccurrent agriculture issues.

0101	Glori Hyman Contact instructor or department for details.	Seats (Total: 10)

INAG199D **Special Problems; Agricultural Tractor Operations and Maintenance**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

This class introduces students to the operation and maintenance of agricultural tractors and farm equipment. Students learn to safely and efficiently operate tractors, connect and use implements, perform regular maintenance, and handle materials. This course will be held at the Upper Marlboro Research and Education Center on two consecutive days: Saturday, September 22 and Sunday, September 23, 2018 (rain date is set for September 29 and September 30). Students will need to provide their own transportation to and from the facility. This course is open to IAA and PLSC students. Other AGNR students will be granted permission to enroll if seats are available.

0101	Jeffery Semler Contact instructor or department for details.	Seats (Total: 10)

INAG201 **Agricultural Human Resources Management**

Credits: 3 Grading Method: Regular

Restriction: Must be in a major in AGNR-College of Agriculture & Natural Resources; or permission of AGNR-Institute of Applied Agriculture department. Additional information: May not count toward any BMGT major or minor requirement.

The course introduces students to the study and application of the basic principles of human relations and personnel management. A variety of approaches to recruiting, training, delegating, motivating, and appraising employees are among the topics discussed.

0101	Kenneth Ingram	Seats (Total: 30)
	TuTh 8:00am - 9:15am	JUL 1123

INAG203 **Agricultural Finance**

Credits: 3 Grading Method: Regular, Audit

Restriction: Students at the Institute of Applied Agriculture (IAA); or students at the College of Agriculture and Natural Resources (AGNR); or permission may be granted to other students based on available space. Additional information: Course cannot be used to fulfill a requirement for a Robert H. Smith School of Business major or minor.

This course introduces fundamental concepts related to the financial management of an agricultural business. Topics include financial statement analysis, financial planning, the relationship between risk and return, the time value of money, costs associated with borrowed funds, sources of capital, financial markets and intermediaries in agriculture, and personal finance, among others. Students will gain financial knowledge and skills necessary for managing a profitable agricultural business.

0101	Larisa Cioaca	Seats (Total: 30)
	TuTh 9:30am - 10:45am	JUL 1123

INAG226 **Diseases of Ornamentals and Turf**

Credits: 3 Grading Method: Regular, Audit

Recommended: Completion of one of the following is recommended: PLSC 253, PLSC 254, INAG 107, PLSC 305. Additional information: Priority in enrollment will be given to students within the Institute of Applied Agriculture.

The course will cover various topics such as plant pathology, disease control practices, and an in depth coverage of the major diseases of ornamentals and turfgrasses in the Mid-Atlantic region. Emphasis will be placed on identification of disease signs and symptoms. Over 50 diseases will be covered during the semester.

0101	Geoffrey Rinehart	Seats (Total: 25)	
	Tu 11:00am - 12:50pm	JUL 1111	
	Th 11:00am - 12:50pm	JUL 1111	Lab

INAG231 **Insects of Ornamentals and Turf**

Credits: 3 Grading Method: Regular, Pass-Fail

Recommended: PLSC253, PLSC254, or PLSC305; or INAG107. Restriction: Must be in a major in AGNR-College of Agriculture & Natural Resources; or permission of AGNR-Institute of Applied Agriculture department. Additional information: Priority enrollment will be given to students in the IAA program.

A study of the major insect pests and beneficial insects of ornamental plants and turfgrasses in the Mid-Atlantic region. The student will be responsible for insect identification, life history, and control practices of approximately 100 insects. An insect collection consisting of both insect pests and beneficial insects is required.

0101	Geoffrey Rinehart	Seats (Total: 18)	
	W 9:00am - 10:50am	JUL 1123	
	M 9:00am - 10:50am	JUL 1111	Lab

INAG237 Surveying and GPS Applications in Agriculture

Credits: 3 Grading Method: Regular, Pass-Fail

Restriction: Must be in a major in AGNR-College of Agriculture & Natural Resources; or permission of AGNR-College of Agriculture & Natural Resources. Additional information: Course is open to Institute of Applied Agriculture students and permission will be granted to others in the College of Agriculture and Natural Resources based on available seats. IAA student must have completed INAG 101 and INAG 104.

The principles of land measurement, using conventional surveying techniques to determine distance, elevation change or topography; Global Positioning System (GPS) devices; and mapping, utilizing Graphical Information Systems (GIS), will be the focus of this course. Students will use surveying equipment and GPS receivers and other data collection instruments to collect land data features. Data will be mapped and analyzed using software including: Trimble GPS Pathfinder Office, and ESRI ArcGIS software. Students will download and integrate available on-line geo-referenced map images or other data to support the development of their GPS collected data. Spatial analysis software will be used to map problem areas of field agronomic factors.

0101	Roy Walls	Seats (Total: 10)	
	W 12:00pm - 1:50pm	ANS 0504	
	F 11:00am - 12:50pm	ANS 0509	Lab

INAG240 Professional Development

Credits: 1 Grading Method: Regular

Prerequisite or corequisite: INAG299A. Restricted to students in the AGNR-Institute of Applied Agriculture department. Others by permission of the AGNR-Institute of Applied Agriculture department. Required for all graduating IAA students, this course provides students with the opportunity to reflect on their academic experience and develop skills necessary to successfully transition into their careers. Students will explore careers and professional associations, complete their portfolios, and prepare resumes. Each student will develop and present a professional presentation on his/her internship experience.

0101	Glori Hyman	Seats (Total: 25)
	M 3:00pm - 4:50pm	JUL 1123

INAG242 **Golf Course Design and Construction**

Credits: 3 Grading Method: Regular General Education: DSSP

An appreciation and understanding of the game of golf is obtained through lectures on the history, organizations, and rules of the game. Golf course design theories, great architects and their courses, and construction specifications are discussed. Students will complete two golf course design projects.

0101	Kenneth Ingram	Seats (Total: 22)	
	MW 2:00pm - 2:50pm	JUL 1111	
	W 3:00pm - 4:50pm	JUL 1111	Lab

INAG250 **Fundamentals of Agricultural Mechanics**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of AGNR-Institute of Applied Agriculture department. Also offered as: PLSC204, PLSC204. Credit only granted for: ENBE200 or PLSC204 or INAG250. Formerly: ENBE200. Additional information: Priority given to IAA majors and AGNR students whose major requires this course. Permission will be granted to other students on seats available basis.

A comprehensive course that teaches the fundamentals of agricultural related mechanics. Lecture and lab exercises will cover the broad range of topics associated with agricultural mechanics including electricity, plumbing, welding processes, and wood and metal working applications. Emphasis will be given to the design and installation of electrical circuits. It will also include project planning and implementation including development of safety protocols for each area of study and introduction of GPS equipment and software for survey data collection.

0101	Roy Walls	Seats (Total: 8)
	TuTh 9:30am - 12:20pm	ANS 0504
0201	Roy Walls	Seats (Total: 8)
	TuTh 2:00pm - 4:50pm	ANS 0504

INAG251 **Landscape Construction**

Credits: 3 Grading Method: Regular, Pass-Fail

Prerequisite: INAG250 or PLSC204. Restriction: Must be in a major in AGNR-College of Agriculture & Natural Resources. Additional information: Priority enrollment is given to Landscape Management majors in the Institute of Applied Agriculture.

An introductory course in the basics of hardscape topics in landscape construction. Covers fundamental construction layout using surveying techniques; GPS; elements of construction dealing with wood, concrete, masonry, pavers, and/or electrical amenities used in hardscape construction. Emphasis will be placed on safety, interpretation of construction drawings or plans, specifications for specific structures, materials selection, cost estimations, site preparation and typical construction techniques.

0101	Roy Walls	Seats (Total: 12)
	W 2:00pm - 5:50pm	ANS 0504

INAG253 **Agricultural Strategic Communication**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Recommended: INAG252. Restriction: Students at the Institute of Applied Agriculture (IAA); or students at the College of Agriculture and Natural Resources (AGNR); or permission may be granted to other students based on available space.

Introduces the fundamental concepts and applications of strategic communication in agricultural organizations. Topics include strategic communication planning; communication and culture; communication and change; managing internal and external communication; and corporate responsibility. Students will learn how to use communication to accomplish organizational goals.

0101	Larisa Cioaca	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	JUL 1123

INAG299A **Supervised Work Experience; Internship I**

Credits: 1 Grading Method: Sat-Fail

Restricted to students in the AGNR-Institute of Applied Agriculture department. Others by permission of the AGNR-Institute of Applied Agriculture department.

Contact department for information to register for this course.

INAG299B **Supervised Work Experience; Internship II**

Credits: 1 Grading Method: Regular

Restricted to students in the AGNR-Institute of Applied Agriculture department. Others by permission of the AGNR-Institute of Applied Agriculture department.

Contact department for information to register for this course.

INFM Information Management Fall 2018

INFM289I **Social Networking: Technology and Society**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: SB	General Education: DSHS, SCIS

This course is open to any UMD students. To register, please contact iSchool at InfoSci@umd.edu.

0101	Jennifer Golbeck	Seats (Total: 79)
	TuTh 2:00pm - 3:15pm	TYD 2109

INFM600 **Information Environments**

Credits: 3	Grading Method: Regular, Audit

Restriction: Permission of INFO-College of Information Studies.

An exploration of various models and methodologies used to capture and deploy internal and external information and knowledge in a number of settings; organizational analysis in terms of information creation, flow, sharing, conservation, and application to problem solving; internal and external influences on the management of information and knowledge; various information flows; information management in a variety of settings.

0102	David Loshin	Seats (Total: 30)
	Th 6:00pm - 8:45pm	BPS 0283

INFM603 **Information Technology and Organizational Context**

Credits: 3	Grading Method: Regular, Audit

Restriction: Must not have completed LBSC671 or LBSC690; and permission of INFO-College of Information Studies.

Application of communication and information technologies to support work processes, including technology-enhanced communication networks, computer-supported collaborative work, decision-support systems, interactive systems, and systems analysis. Acquisition of information systems and their integration into the organization.

0101	Paul Jacobs	Seats (Total: 30)
	Th 6:00pm - 8:45pm	HBK 0105

INFM605 **Users and Use Context**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of INFO-College of Information Studies.

Use of information by individuals. Nature of information. Information behavior and mental models. Characteristics of problems, task analysis, problem solving, and decision making. Methods for determining information behavior and user needs. Information access. Information technology as a tool in information use.

0101	Vera Rhoads	Seats (Total: 30)
	Tu 6:00pm - 8:45pm	HBK 2119

INFM612 **Management Concepts and Principles for Information Professionals**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of INFO-College of Information Studies.

Key aspects of management - focusing on planning, organizing, leading and controlling. The evolution of management, innovative management for the changing world, management styles and leadership, managerial planning, goal setting and decision making. Ethical issues, designing adaptive organizations responding to change, global environment, diversity, and utilizing the appropriate technology to provide effective management of information programs and services.

ML01	Taverekere Srikantaiah	Seats (Total: 30)
	Class time/details on ELMs	ONLINE

INFM719 **Independent Study**

Credits: 1-3 Grading Method: Regular

Intensive individual study under faculty supervision.

Contact department for information to register for this course.

INFM736 **Information Management Experience**

Credits: 3 Grading Method: Sat-Fail

Prerequisite: INFM600; and INFM612; and INFM605; and INFM603. Or permission of instructor. Restriction: Must be in Information Management (Master's) program; and permission of INFO-College of Information Studies.

The Information Management Capstone Experience I and II are the culminating experience of the Master of Information Management program, taken in the students final two semesters. The capstone experience provide students with the opportunity to integrate and synthesize the knowledge and skills acquired throughout their MIM course work while working in a real world Information Management project. These courses must be taken in succession.

0101	Kathy Weaver	Seats (Total: 37)
	Tu 6:00pm - 8:45pm	TYD 2111

INFM747 **Web-Enabled Databases**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: INFM603, LBSC690, or LBSC671; and INST733. Or permission of instructor. Restriction: Permission of INFO-College of Information Studies. Credit only granted for: INFM747 or INFM718N. Formerly: INFM718N.

Basic methods and tools for developing dynamic, database-driven web sites. Acquiring, installing, and running web servers, database servers, and connectability applications. Developing web interfaces and application-layer components.

ML01	Pratima Kshetry	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

INFM799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Intensive individual research course under the supervision of a faculty member.

Contact department for information to register for this course.

INST Information Studies Fall 2018

INST126 **Introduction to Programming for Information Science**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Minimum grade of C- in MATH115; or must have math eligibility of MATH140 or higher; or permission of instructor. Restriction: Must not have completed INST326 or CMSC131; and must be in Information Science program.

An introduction to computer programming for students with very limited or no previous programming experience. Topics include fundamental programming concepts such as variables, data types, assignments, arrays, conditionals, loops, functions, and I/O operations.

0101	Donal Heidenblad MWF 2:00pm - 2:50pm	Seats (Total: 50) ATL 1113
0102	Joel Chan TuTh 9:30am - 10:45am	Seats (Total: 60) ESJ 2212
0103	Jeannette Kartchner TuTh 3:30pm - 4:45pm	Seats (Total: 50) SQH 1117

INST152 **Foundational Scholarship and Critical Inquiry in the Information Age**

Credits: 3 | Grading Method: Regular, Pass-Fail | General Education: DSSP

Students will acquire, hone, and learn to apply foundational information literacy skills for research and application including: ethical information use and creation; information accessibility; and interpreting scholarly discourse.

0102	Brooke Auxier Class time/details on ELMs	Seats (Total: 35) ONLINE
0103	Brooke Auxier TuTh 3:30pm - 4:45pm	Seats (Total: 35) EGR 0108

INST201 **Introduction to Information Science**

Credits: 3 | Grading Method: Regular, Audit | General Education: DSHS

Credit only granted for: INST201 or INST301. Formerly: INST301.

Examining the effects of new information technologies on how we conduct business, interact with friends, and go through our daily lives. Understanding how technical and social factors have influenced the evolution of information society. Evaluating the transformative power of information in education, policy, and entertainment, and the dark side of these changes.

0101	Daniel Greene TuTh 12:30pm - 1:45pm	Seats (Total: 100) SQH 1120

0102	Joel Chan MWF 10:00am - 10:50am	Seats (Total: 100) TWS 0310
0103	Kelly Hoffman TuTh 3:30pm - 4:45pm	Seats (Total: 50) SQH 1119
0104	Elizabeth Bonsignore MW 5:00pm - 6:15pm	Seats (Total: 50) TYD 1132

INST301 **Introduction to Information Science**

Credits: 3 Grading Method: Regular, Audit General Education: DSHS

Restriction: Must be in Information Science program; and permission of INFO-College of Information Studies; and restricted to students in the Information Science Program on the Universities at Shady Grove campus.

Examining the effects of new information technologies on how we conduct business, interact with friends, and go through our daily lives. Understanding how technical and social factors have influenced the evolution of information society. Evaluating the transformative power of information in education, policy, and entertainment, and the dark side of these changes.

ESG1	Ryan O'Grady Class time/details on ELMs *Restricted to students in the BSIS @ USG Program.*	Seats (Total: 40) ONLINE

INST309 **Independent Study in Information Science**

(Perm req)

Credits: 1-3 Grading Method: Regular

Individual independent study of an aspect of information science, selected according to student interest and need in consultation with a member of the iSchool faculty. Repeatable to 6 credits if content differs.

0601	Vedat Diker Contact instructor or department for details.	Seats (Total: 1)
0602	Kathy Weaver Contact instructor or department for details.	Seats (Total: 5)
0603	Shawn Janzen Contact instructor or department for details.	Seats (Total: 5)

0604	Jonathan Brier Contact instructor or department for details.	Seats (Total: 5)
2401	Bill Kules Contact instructor or department for details.	Seats (Total: 6)
2801	Eun Kyoung Choe Contact instructor or department for details.	Seats (Total: 1)

INST311 **Information Organization**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have completed or be concurrently enrolled in INST201; or INST301. Restriction: Must be in Information Science program; or permission of INFO-College of Information Studies.

Examines the theories, concepts, and principles of information, information representation and organization, record structures, description, and classification. Topics to be covered in this course include the methods and strategies to develop systems for storage, organization, and retrieval of information in a variety of organizational and institutional settings, as well as policy, ethical, and social implications of these systems.

0101	Katrina Fenlon TuTh 11:00am - 12:15pm	Seats (Total: 50) ATL 2428
0102	Katy Lawley MWF 2:00pm - 2:50pm	Seats (Total: 45) ATL 2428
0103	Katy Lawley MWF 3:00pm - 3:50pm	Seats (Total: 45) PHY 1201
0104	Katy Lawley TuTh 9:30am - 10:45am	Seats (Total: 45) PHY 1402
ESG1	Chad Doran TuTh 8:00am - 9:15am *Restricted to students in the BSIS @ USG Program.*	Seats (Total: 40) BLD2 3052

INST314 **Statistics for Information Science**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have completed or be concurrently enrolled in INST201; or must have completed or be concurrently enrolled in INST301. And minimum grade of C- in INST201 and INST301; and MATH115; and STAT100; and minimum grade of C- in MATH115 and STAT100. Restriction: Must be in Information Science program; or permission of INFO-College of Information Studies. Credit only granted for: BIOM301, BMGT230, CCJS200, ECON230, ECON321, EDMS451, GEOG306, GEOL351, GVPT422, INST314, JOUR405, PSYC200 or SOCY201. (These courses do not necessarily meet the same major requirements-check with your advisor to see which of these courses will count for your major).

Basic concepts in statistics including measure construction, data exploration, hypothesis development, hypothesis testing, pattern identification, and statistical analysis. The course also provides an overview of commonly used data manipulation and analytic tools. Through homework assignments, projects, and in-class activities, you will practice working with these techniques and tools to create information resources that can be used in individual and organizational decision-making and problem-solving.

0101	Yla Tausczik TuTh 3:30pm - 4:45pm	Seats (Total: 35) LEF 1220
0103	Shawn Janzen TuTh 12:30pm - 1:45pm	Seats (Total: 45) KEY 0126
0104	Brian Kim MWF 1:00pm - 1:50pm	Seats (Total: 35) JMZ 2206
ESG1	Melissa Lizmi TuTh 9:45am - 11:00am *Restricted to students in the BSIS @ USG Program.*	Seats (Total: 40) BLD3 4211

INST326 **Object-Oriented Programming for Information Science**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: 1 course with a minimum grade of C- from (INST126, CMSC106); and must have completed or be concurrently enrolled in INST201 or INST301. And minimum grade of C- in INST201; or minimum grade of C- in INST301. Restriction: Permission of INFO-College of Information Studies; or must be in Information Science program. Credit only granted for: INST326 or CMSC131.

An introduction to programming, emphasizing understanding and implementation of applications using object-oriented techniques. Topics to be covered include program design and testing as well as implementation of programs.

Students who wish to register should contact the College of Information Studies.

0101	Aric Bills TuTh 12:30pm - 1:45pm	Seats (Total: 50) PHY 4221
0103	Joshua Westgard MWF 2:00pm - 2:50pm	Seats (Total: 50) SKN 0104
0104	Douglas Lay TuTh 9:30am - 10:45am	Seats (Total: 50) PHY 1204
ESG1	Jeannette Kartchner MW 9:45am - 11:00am *Restricted to students in the BSIS @ USG Program.*	Seats (Total: 40) BLD3 3220

INST327 **Database Design and Modeling**

(Perm req)

Credits: 3 Grading Method: Regular, Audit General Education: DSSP

Prerequisite: 1 course with a minimum grade of C- from (CMSC106, CMSC122, INST126); and must have completed or be concurrently enrolled in INST201 or INST301; and minimum grade of C- in INST201 and INST301. Restriction: Must be in Information Science program; or permission of INFO-College of Information Studies. Credit only granted for: INST327 or BMGT402.

Introduction to databases, the relational model, entity-relationship diagrams, user-oriented database design and normalization, and Structured Query Language (SQL). Through labs, tests, and a project, students develop both theoretical and practical knowledge of relational database systems.

Students who wish to register should contact the College of Information Studies.

0101	Tammie Nelson TuTh 2:00pm - 3:15pm	Seats (Total: 50) LEF 2166
0102	Timothy Richards MWF 10:00am - 10:50am	Seats (Total: 50) ATL 2428
0103	Pamela Duffy MWF 1:00pm - 1:50pm	Seats (Total: 50) PHY 4221
0104	Vedat Diker TuTh 5:00pm - 6:15pm	Seats (Total: 50) HBK 0115

INST335 **Teams and Organizations**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: 1 course with a minimum grade of C- from (INST201, INST301); and minimum grade of C- in PSYC100. Restriction: Permission of INFO-College of Information Studies; or must be in Information Science program.

Team development and the principles, methods and types of leadership will be a focus with an emphasis on goal setting, motivation, problem solving, and conflict resolution. This course examines the principles of managing team projects in organizations through planning and execution including estimating costs, managing risks, scheduling, staff and resource allocation, communication, tracking, and control.

Students who wish to register should contact the College of Information Studies.

0101	Philip Piety TuTh 2:00pm - 3:15pm	Seats (Total: 50) ARC 1103
0102	Aswani Valiveti MWF 1:00pm - 1:50pm	Seats (Total: 50) HBK 0115
0103	Mary Kendig MWF 10:00am - 10:50am	Seats (Total: 50) PHY 1204
0104	Philip Piety TuTh 11:00am - 12:15pm	Seats (Total: 50) TYD 1101
ESG1	Taverekere Srikantaiah F 8:00am - 10:45am *Restricted to students in the BSIS @ USG Program.*	Seats (Total: 40) BLD2 3012

INST346 **Technologies Infrastructure and Architecture**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: 1 course with a minimum grade of C- from (INST201, INST301); and 1 course with a minimum grade of C- from (INST326, CMSC131); and minimum grade of C- in INST327. Restriction: Must be in Information Science program; and permission of INFO-College of Information Studies. Credit only granted for: INST346 or BMGT405.

Examines the basic concepts of local and wide-area computer networking including an overview of services provided by networks, network topologies and hardware, packet switching, client/server architectures, network protocols, and network servers and applications. The principles and techniques of information organization and architecture for the Web environment will be covered along with such topics as management, security, authentication, and policy issues associated with distributed systems.

Students who wish to register should contact the College of Information Studies.

0101	Christopher Ajiri TuTh 5:00pm - 6:15pm	Seats (Total: 50) PHY 1204
0102	Timothy Richards MWF 1:00pm - 1:50pm	Seats (Total: 50) SQH 1117
0103	Timothy Richards TuTh 12:30pm - 1:45pm	Seats (Total: 50) TYD 1102

INST352 **Information User Needs and Assessment**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: 1 course with a minimum grade of C- from (INST201, INST301); and minimum grade of C- in INST311. Restriction: Must be in Information Science program; and permission of INFO-College of Information Studies.

Focuses on use of information by individuals, including the theories, concepts, and principles of information, information behavior and mental models. Methods for determining information behavior and user needs, including accessibility issues will be examined and strategies for using information technology to support individual users and their specific needs will be explored.

Students who wish to register should contact the College of Information Studies.

0101	Ursula Gorham-Oscilowski TuTh 11:00am - 12:15pm	Seats (Total: 50) PHY 4221
0102	Beth St Jean MWF 12:00pm - 12:50pm	Seats (Total: 50) HBK 0115
0104	Ursula Gorham-Oscilowski TuTh 2:00pm - 3:15pm	Seats (Total: 50) SQH 1119

INST354 **Decision-Making for Information Science**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: INST314. Restriction: Must be in Information Science program; or permission of INFO-College of Information Studies.

Examines the use of information in organizational and individual decision-making, including the roles of information professionals and information systems in informed decision-making through techniques such as data analysis and regression, optimization, sensitivity analysis, decision trees, risk analysis and business simulation models.

Students who wish to register should contact the College of Information Studies.

0101	Christopher Antoun Class time/details on ELMs	Seats (Total: 50) ONLINE
0102	Christopher Antoun Class time/details on ELMs	Seats (Total: 50) ONLINE

INST362 **User-Centered Design**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: 1 course with a minimum grade of C- from (INST201, INST301); and minimum grade of C- in INST326; and minimum grade of C- in PSYC100. Restriction: Must be in Information Science program; and permission of INFO-College of Information Studies.

Introduction to human-computer interaction (HCI), with a focus on how HCI connects psychology, information systems, computer science, and human factors. User-centered design and user interface implementation methods discussed include identifying user needs, understanding user behaviors, envisioning interfaces, and utilizing prototyping tools, with an emphasis on incorporating people in the design process from initial field observations to summative usability testing.

Students who wish to register should contact the College of Information Studies.

0101	Patrick Thornton MWF 3:00pm - 3:50pm	Seats (Total: 50) CHM 0115
0102	Amanda Lazar TuTh 9:30am - 10:45am	Seats (Total: 50) PHY 4221
0103	Kathy Weaver TuTh 2:00pm - 3:15pm	Seats (Total: 50) VMH 1207

INST364 **Human-Centered Cybersecurity**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: INST201 or INST301; and must have completed or be concurrently enrolled in INST352. Restriction: Must be in Information Science program; and permission of INFO-College of Information Studies.

Cybersecurity is fundamentally a problem of human interaction with technology, but its technical challenges are better understood than its human challenges. This course is designed to give you an overview of human interactions with cybersecurity technology, from users to system designers. Using the information gleaned in this course, you should be able to make better predictions about how people react to cybersecurity policies and tools, and how those reactions shape organizational behavior. The earlier part of the course focuses on explanations for behavior, while the later parts of the course focus more on the development and evaluation of tools for assisting people in cybersecurity.

0101	Susan Campbell TuTh 3:30pm - 4:45pm	Seats (Total: 35) SYM 0215

INST377 **Dynamic Web Applications**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: INST327. Restriction: Must be in Information Science program; or permission of INFO-College of Information Studies. Credit only granted for: INST377 or BMGT406.

An exploration of the basic methods and tools for developing dynamic, database-driven websites, including acquiring, installing, and running web servers, database servers, and connectability applications.

Students who wish to register should contact the College of Information Studies.

0101	Donal Heidenblad MWF 11:00am - 11:50am	Seats (Total: 50) KEY 0103
0102	Donal Heidenblad TuTh 12:30pm - 1:45pm	Seats (Total: 50) SQH 1117

INST414 **Data Science Techniques**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: INST314. Restriction: Must be in Information Science program; or permission of INFO-College of Information Studies.

An exploration of how to extract insights from large-scale datasets. The course will cover the complete analytical funnel from data extraction and cleaning to data analysis and insights interpretation and visualization. The data analysis component will focus on techniques in both supervised and unsupervised learning to extract information from datasets. Topics will include clustering, classification, and regression techniques. Through homework assignments, a project, exams and in-class activities, students will practice working with these techniques and tools to extract relevant information from structured and unstructured data.

0101	Jennifer Golbeck Th 11:00am - 12:15pm Class time/details on ELMs	Seats (Total: 50) SQH 1117 ONLINE
0102	William Bowser MW 5:30pm - 6:45pm	Seats (Total: 50) ATL 2428

INST447 **Data Sources and Manipulation**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: INST326 or CMSC131; and INST327. Restriction: Must be in Information Science program; or permission of INFO-College of Information Studies.

Examines approaches to locating, acquiring, manipulating, and disseminating data. Imperfection, biases, and other problems in data are examined, and methods for identifying and correcting such problems are introduced. The course covers other topics such as automated collection of large data sets, and extracting, transforming, and reformatting a variety of data and file types.

0101	Yla Tausczik TuTh 12:30pm - 1:45pm	Seats (Total: 50) VMH 1203
0102	Donal Heidenblad MWF 10:00am - 10:50am	Seats (Total: 50) SYM 0200

INST448 **Digital Curation Research in Cultural Big Data Collections**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Students will learn the principles, methods, and technologies involved in the digital curation of large cultural data collections. Students will learn these concepts in class lectures, discussions, and participating on project teams in the Digital Curation Innovation Center (DCIC).

0101	Richard Marciano, Kenneth Heger TuTh 11:00am - 12:15pm	Seats (Total: 30) EDU 1121

INST462 **Introduction to Data Visualization**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: INST314. Restriction: Must be in Information Science program; or permission of INFO-College of Information Studies.

Exploration of the theories, methods, and techniques of visualization of information, including the effects of human perception, the aesthetics of information design, the mechanics of visual display, and the semiotics of iconography.

Students who wish to register should contact the College of Information Studies.

0102	Niklas Elmqvist TuTh 9:30am - 10:45am	Seats (Total: 40) PHY 0405
0103	Jennifer Golbeck Class time/details on ELMs	Seats (Total: 45) ONLINE

INST466 **Technology, Culture, and Society**

Credits: 3 Grading Method: Regular, Audit General Education: DVCC

Prerequisite: INST201. Restriction: Must be in Information Science program; or permission of INFO-College of Information Studies.

Individual, cultural, and societal outcomes associated with development of information & communication technologies (ICTs), including pro- and anti-social factors. Unpacking how gender, race, ethnicity, sexual orientation, disabilities, and political affiliations affect consumption and production of online experiences. Unpacking how structures of dominance, power and privilege manifest at individual, institutional and cultural levels.

0101	Jessica Vitak TuTh 11:00am - 12:15pm	Seats (Total: 40) ESJ 1309

INST490 **Integrated Capstone for Information Science**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Minimum grade of C- in INST314, INST335, INST346, INST352, and INST362. Restriction: Must be in Information Science program; and must have completed all Information Science major core courses; and permission of INFO-College of Information Studies.

The capstone provides a platform for Information Science students where they can apply a subset of the concepts, methods, and tools they learn as part of the Information Science program to addressing an information problem or fulfilling an information need.

0102	Elizabeth Bonsignore TuTh 12:30pm - 1:45pm	Seats (Total: 40) SQH 1119
0103	Gregory Smith Tu 6:00pm - 8:45pm	Seats (Total: 40) KEY 1117

INST604 **Introduction to Archives and Digital Curation**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of INFO-College of Information Studies. Credit only granted for: LBSC604 or LBSC605.

Overview of the principles, practices, and applications in the archival and digital curation fields.

0201	Adam Kriesberg Tu 6:00pm - 8:45pm	Seats (Total: 30) HBK 0103

INST610 **Information Ethics**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of INFO-College of Information Studies. Credit only granted for: INFM718Q, INST610, or LBSC708I. Formerly: INFM718Q and LBSC708I.

Investigation of the diverse range of ethical challenges facing society in the information age. Ethical theories, including non-Western and feminist theories. Application of theories to information ethics issues.

ML01	Hannah Bergman Class time/details on ELMs	Seats (Total: 25) ONLINE

INST613 **Information and Human Rights**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of INFO-College of Information Studies.

An examination of information as a human right, including topics: social, cultural, economic, legal, and political forces shaping information rights; the impact of information rights on information professions, standards, and cultural institutions; and information rights and disadvantaged populations.

0101	Paul Jaeger	Seats (Total: 30)
	M 6:00pm - 8:45pm	HBK 0105

INST620 **Diverse Populations, Inclusion, and Information**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of INFO-College of Information Studies. Credit only granted for: LBSC620 OR INST620. Formerly: LBSC620.

Importance of equality of information access. Social, political, and technological barriers to information. Information needs of diverse and underrepresented populations. Principles of inclusive information services.

ML01	Renee Hill	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

INST627 **Data Analytics for Information Professionals**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of INFO-College of Information Studies.

Skills and knowledge needed to craft datasets, perform quantitative and qualitative analyses, and develop information resources that bridge the gap between raw data and decision makers' needs.

0201	Hernisa Kacorri	Seats (Total: 30)
	W 2:00pm - 4:45pm	HBK 0105

INST630 **Introduction to Programming for the Information Professional**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of INFO-College of Information Studies.

An introduction to computer programming intended for students with no previous programming experience. Topics include fundamentals of programming and current trends in user interface implementation that are relevant to information professionals.

0101	Vedat Diker M 2:00pm - 4:45pm	Seats (Total: 38) HBK 0105

INST631 **Fundamentals of Human-Computer Interaction**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have completed or be concurrently enrolled in INST630; or permission of instructor. Restriction: Permission of INFO-College of Information Studies. Credit only granted for: INST631 or LBSC795. Formerly: LBSC795.

Principles of human-human and machine-machine communication as a basis for models of human-computer communication. Issues related in input/ output devices, conceptual models, levels of control, metaphor and personification, adaptability, and intensionality/extensionality.

0101	Jennifer Golbeck Tu 6:00pm - 8:45pm	Seats (Total: 40) BPS 1238

INST641 **Policy and Ethics in Digital Curation**

Credits: 3 Grading Method: Regular

Prerequisite: INST604; or INST640; or permission of instructor. Restriction: Permission of INFO-College of Information Studies.

Discussion of strategies to address intellectual property, privacy, security and other policy and ethics concerns raised by the curation of digital records and data.

ML01	Katie Shilton, Karen Boyd Class time/details on ELMs	Seats (Total: 30) ONLINE

INST643 **Curation in Cultural Institutions**

Credits: 3 Grading Method: Regular

Restriction: Permission of INFO-College of Information Studies.

An overview of the principles, practices, and current debates in the management, care and representation of digital artifacts in libraries, archives, and museums.

0101	Adam Kriesberg W 2:00pm - 4:45pm	Seats (Total: 30) HBK 0103

INST650 **Facilitating Youth Learning in Formal and Informal Environments**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Restriction: Permission of INFO-College of Information Studies. Credit only granted for: INST650 or LBSC640. Formerly: LBSC640.

The historical, organizational, and contemporary contexts of formal and informal learning spaces; the principles of teaching, learning, and information literacy that underlie the formal and informal learning spaces; and the leadership role that information professionals can play within their schools, libraries and communities.

CT01	Renee Hill Class time/details on ELMs	Seats (Total: 15) ONLINE
ML01	Renee Hill Class time/details on ELMs	Seats (Total: 25) ONLINE

INST651 **Promoting Rich Learning with Technology**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Restriction: Permission of INFO-College of Information Studies. Credit only granted for: INST651 or LBSC642. Formerly: LBSC642.

Exploration of how technology can be used to promote rich learning experiences, with a particular focus on youth populations. Assessment of the how, when, and why of infusing technology into the teaching and learning process.

Course is restricted to the Youth Experience Certificate Cohort.

CT01	Linda Braun **Meets November 27, 2018 - February 25, 2019** Class time/details on ELMs *Course is restricted to the Youth Experience Certificate Cohort.*	Seats (Total: 25) ONLINE
CT02	Linda Braun Class time/details on ELMs *Course is restricted to students in the School Library Certificate program.*	Seats (Total: 15) ONLINE
ML01	Renee Hill Class time/details on ELMs	Seats (Total: 25) ONLINE

INST652 **Design Thinking and Youth**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of INFO-College of Information Studies.

Methods of design thinking specifically within and for youth contexts, including user-centered design, understanding user needs, ideation, contextual design, participatory design, iterative prototyping, and visual design. These topics will specifically be studied in the context of designing with and for youth.

Course is restricted to the Youth Experience Certificate Cohort.

CT01	Tamara Clegg	Seats (Total: 20)
	Meets August 27, 2018 - November 19, 2018	
	Class time/details on ELMs	ONLINE

INST660 **Strategic Leadership**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: INFM612; or LBSC631; or LBSC635; or permission of instructor. Restriction: Permission of INFO-College of Information Studies. Credit only granted for: INST660, LBSC708F or INFM718F. Formerly: LBSC708F, INFM718F.

Students will use research and best practices to act and think like a leader, increase your self-awareness, and learn how to unlock potential in others. From the stories of great leaders and everyday people, you will learn and practice empowerment, accountability, courage, creativity, and humility, which are the key leadership skills. In addition, this course will teach you how to create new opportunities and lasting impact to drive growth and value creation in your organization.

ML01	Timothy Summers	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

INST682 **Personal Health Informatics & Visualization**

Credits: 3 Grading Method: Regular, Audit

Personal Health Informatics cover a broad concept that encompasses an array of approaches to collect, store, share, analyze, and reflect on personal health data. Not only health care providers are relying on Health Technologies to improve patient care, people are increasingly using health devices and apps in their everyday life. Individuals have started using new technologies to collect data, increase awareness, and reflect on and change their behaviors. They also use various tools for curiosity and fun. This course will provide an overview of this exciting field and examine how social and behavioral theories can be applied to create effective health applications.It is difficult to create health technologies that can successfully be integrated into people's daily life due to many obstacles in individuals' data collection, integration, self-reflection, and sharing practices. Understanding these challenges is an important part of designing Health Technologies. Therefore, this course will cover HCI and design thinking methods that you can leverage in understanding the adoption of Health Technologies. Moreover, visualizations facilitate people to gain insights from their data, so we will cover common visualization approaches used in the personal data contexts.

Also offered as CMSC838X. Credit only granted for INST682 or CMSC838X.

0101	Eun Kyoung Choe	Seats (Total: 30)
	Tu 2:00pm - 4:45pm	JMP 1109

INST701 **Introduction to Research Methods**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of INFO-College of Information Studies. Credit only granted for: LBSC701, INFM718M or INST701. Formerly: LBSC701, INFM718M.

Techniques and strategies of research as applied to the definition, investigation, and evaluation of information problems. Qualitative, quantitative, and mixed methods of research design methods are considered from the aspects of implementation, analysis, and interpretation.

0101	Margaret Chmiel	Seats (Total: 30)
	W 6:00pm - 8:45pm	HBK 0115

INST706 **Project Management**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: INFM603 and INFM612; or (LBSC631 and LBSC671); or (LBSC635 and LBSC670); or permission of instructor. Restriction: Permission of INFO-College of Information Studies. Credit only granted for: INST706 or INFM706. Formerly: INFM706.

Comprehensive overview of project management, focusing on the needs of information resource (IR) projects. Concepts and techniques for planning and execution of projects including developing work breakdown structure, estimating costs, managing risks, scheduling, staff and resource allocation, team building, communication, monitoring, control, and other aspects of successful project completion.

ML01	Vikas Sahasrabudhe Class time/details on ELMs	Seats (Total: 25) ONLINE

INST709 **Independent Study**

Credits: 1-3 Grading Method: Regular, Audit

Intensive individual study, reading, or research in an area of specialized interest under faculty supervision. Registration limited to the advanced student with the approval of the advisor and of the faculty member involved.

0301	Brian Butler Contact instructor or department for details.	Seats (Total: 3)
0501	Amanda Lazar Contact instructor or department for details.	Seats (Total: 5)
0701	Kenneth Heger Contact instructor or department for details.	Seats (Total: 3)
1201	Renee Hill Contact instructor or department for details.	Seats (Total: 3)
1301	Jennifer Golbeck Contact instructor or department for details.	Seats (Total: 3)
2201	Christopher Antoun Contact instructor or department for details.	Seats (Total: 5)
2401	Jessica Vitak Contact instructor or department for details.	Seats (Total: 5)
2601	Niklas Elmqvist Contact instructor or department for details.	Seats (Total: 5)
3301	Hernisa Kacorri Contact instructor or department for details.	Seats (Total: 5)
4301	Ursula Gorham-Oscilowski Contact instructor or department for details.	Seats (Total: 2)
4501	Tamara Clegg Contact instructor or department for details.	Seats (Total: 3)

INST710 **User Experience Research Methods**

Credits: 3 Grading Method: Regular

Students will learn to conduct user research in industry and to provide foundational knowledge needed for academic research. It examines the theoretical and epistemological differences between research paradigms and provides an overview of qualitative, quantitative and mixed-method approaches. It overviews user-centered design (UCD) methods, and uses Contextual Inquiry/Contextual Design as the backbone for a research project, incorporating related formative UCD methods and techniques. It is a project-based course, where students conduct a semester-long project to prepare them for the HCIM Capstone as well as other types of formative user research.

0101	Bill Kules	Seats (Total: 35)
	W 2:00pm - 4:45pm	HBK 2119
	Restricted to HCIM majors.	

INST735 **Computational Linguistics I**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: CMSC421; or students who have taken courses with comparable content may contact the department. Restriction: Permission of INFO-College of Information Studies. Also offered as: CMSC723, LING723. Credit only granted for: CMSC723, LING723, or INST735.

Fundamental methods in natural language processing. Topics include: finite-state methods, context-free and extended context-free models of syntax; parsing and semantics interpretation; n-gram and Hidden Markov models, part-of-speech tagging; natural language applications such as machine translation, automatic summarization, and question answering.

0101	Jordan Boyd-Graber Ying	Seats (Total: 74)
	MW 3:30pm - 4:45pm	CSI 3117

INST750 **Advanced Data Science**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: INFM603 and INST737; or permission of instructor. Restriction: Permission of INFO-College of Information Studies. Credit only granted for: INFM750 OR INST750. Formerly: INFM750.

Application of data science techniques to unstructured, real-world datasets including social media and geo-referenced sources. Techniques and approaches to extract information relevant for experts and non-experts in areas that include smart cities, public health, and disaster management.

0101	Vanessa Frias-Martinez	Seats (Total: 30)
	W 2:00pm - 4:45pm	HBK 0115

INST760 **Data Visualization**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: INST630; or INFM603; or permission of instructor. Restriction: Permission of INFO-College of Information Studies. Credit only granted for: INST760 or INST728V. Formerly: INST728V.

Introduction to the science and technology of data visualization--the graphical representation of data to aid understanding--and includes both theoretical foundations as well as practical applications of integrated visualization techniques on real-world problems. Application of these techniques to state-of-the-art problem domains within research, society, and industry.

0101	Sriram Badam	Seats (Total: 30)
	Th 2:00pm - 4:45pm	HBK 0115

INST775 **HCIM CAPSTONE PREP**

Credits: 3 Grading Method: Regular

Prerequisite: INST631, INST632, and INST717; and must have completed Research Methods; and permission of INFO-College of Information Studies. Or permission of instructor. Restriction: Must be taken in the fall semester of the year in which the student plans to graduate; and permission of INFO-College of Information Studies.

Students will define a project, which requires a high level of background research, rigor in execution and evaluation, and documentation. Capstone projects may follow the design, prototyping and evaluation process from end-to-end or may focus on a subset of elements in that process, such as formative study and design.

0101	Bill Kules	Seats (Total: 20)
	Th 6:00pm - 8:45pm	HBK 2119

INST782 **Arrangement, Description, and Access for Archives**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: INST604; or permission of instructor. Restriction: Permission of INFO-College of Information Studies. Credit only granted for: LBSC684, LBSC781, LBSC782, or INST782. Formerly: LBSC684, LBSC781, and LBSC782.

Introduction to the key concepts and practices involved with arrangement and description of archives, and the techniques appropriate to enable users to access archival information in traditional and nontraditional archival contexts.

0101	Kenneth Heger W 6:00pm - 8:45pm	Seats (Total: 30) HBK 1112

INST784 **Digital Preservation**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: INST604; or permission of instructor. Restriction: Permission of INFO-College of Information Studies. Credit only granted for: LBSC784 or INST784. Formerly: LBSC784.

Issues and practices regarding digitization of analog materials and preservation of digital materials, both digitized and born digital.

0101	Trevor Owens Th 6:00pm - 8:45pm	Seats (Total: 30) SQH 1101

INST799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular, Sat-Fail

0501	Amanda Lazar Contact instructor or department for details.	Seats (Total: 3)
1301	Jennifer Golbeck Contact instructor or department for details.	Seats (Total: 10)
2201	Christopher Antoun Contact instructor or department for details.	Seats (Total: 1)
2601	Niklas Elmqvist Contact instructor or department for details.	Seats (Total: 5)
2801	Eun Kyoung Choe Contact instructor or department for details.	Seats (Total: 5)
3301	Hernisa Kacorri Contact instructor or department for details.	Seats (Total: 5)

4901	Gregg Vanderheiden Contact instructor or department for details.	Seats (Total: 5)
5001	Michelle Mazurek Contact instructor or department for details.	Seats (Total: 2)

INST800 **The Engaged Intellectual: An Introduction to Research and Academic Work**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of INFO-College of Information Studies; and restricted to students in Ph.D. in Information Studies (INFS) program.

An introduction to the academic life with a particular focus on what it means to undertake research, teaching, and service.

Restricted to Doctoral Students.

0101	Mega Subramaniam Tu 2:00pm - 4:45pm	Seats (Total: 20) HBK 4113

INST810 **Individual Research Experience**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: INST810 or LBSC810. Formerly: LBSC810.

Pre-candidacy individual research experience directed by a faculty member.

0301	Brian Butler Contact instructor or department for details.	Seats (Total: 5)
1101	Paul Jaeger Contact instructor or department for details.	Seats (Total: 5)
1301	Jennifer Golbeck Contact instructor or department for details.	Seats (Total: 4)
1501	Beth St Jean Contact instructor or department for details.	Seats (Total: 2)
1601	Vanessa Frias-Martinez Contact instructor or department for details.	Seats (Total: 2)

2101	Katie Shilton Contact instructor or department for details.	Seats (Total: 5)
2401	Jessica Vitak Contact instructor or department for details.	Seats (Total: 5)
2801	Eun Kyoung Choe Contact instructor or department for details.	Seats (Total: 10)

INST888 **Doctoral Seminar**

Credits: 3 Grading Method: Regular, Audit

Advanced seminar on selected topics in information studies.

0101	Ricardo Punzalan W 2:00pm - 4:45pm	Seats (Total: 20) HBK 1108

INST898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

INST899 **Doctoral Dissertation Research**

(Perm req)

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

ISRL Israel Studies Fall 2018

ISRL249C **Selected Topics in Israel Studies; Contemporary Israel: History and Society**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics in the study of Zionism and contemporary Israel from the 1880's to the present. Future offerings may address history, politics, or culture.

Contact department for information to register for this course.

ISRL249D **Selected Topics in Israel Studies; Women in Israel**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics in the study of Zionism and contemporary Israel from the 1880's to the present. Future offerings may address history, politics, or culture.

Contact department for information to register for this course.

ISRL249E **Selected Topics in Israel Studies; Writing Israel**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics in the study of Zionism and contemporary Israel from the 1880's to the present. Future offerings may address history, politics, or culture.

Contact department for information to register for this course.

ISRL289I **The Israeli/Palestinian Conflict: Fundamental Questions**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SH General Education: DSHS, SCIS

Why are Palestinians and Israelis unable to resolve their conflict? Will they ever? Using insights and methodologies from a variety of disciplines and contrasting interpretations of history, this course will examine why the Palestinian-Israeli conflict continues, why it has become so central in world politics and how it connects with other global issues.

0101	Paul Scham MW 4:00pm - 4:50pm Tu 2:00pm - 2:50pm	Seats (Total: 20) TWS 1100 HBK 0123	Discussion
0102	Paul Scham MW 4:00pm - 4:50pm Tu 4:30pm - 5:20pm	Seats (Total: 20) TWS 1100 ASY 3215	Discussion
0103	Paul Scham MW 4:00pm - 4:50pm W 2:00pm - 2:50pm	Seats (Total: 20) TWS 1100 ASY 3215	Discussion
0104	Paul Scham MW 4:00pm - 4:50pm Th 3:30pm - 4:20pm	Seats (Total: 20) TWS 1100 HBK 1108	Discussion

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ISRL329E **Special Topics in Israel Studies; Israel and the Arab Spring**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics in the study of Zionism and contemporary Israel from the 1880's to the present at an intermediate level. Individual sections may address history, politics, or culture.

Also offered as GVPT309L. Credit granted for GVPT309L or ISRL329E. This course will explore and analyze the political, diplomatic, and strategic effects of the Arab Spring and its continuing after effects on the State of Israel, using that as a lens to study the contemporary Middle East. It starts with a preliminary study of Israel's foreign policy and then examines the effects of the Arab Spring on its domestic politics: relations with other regional actors, the Palestinians, and the United States; and Israel's strategy towards non-state actors such as Hamas, Hezbollah, and ISIS.

0101	Moran Stern	Seats (Total: 40)
	W 4:00pm - 6:30pm	HJP 2242

ISRL329G **Special Topics in Israel Studies; The Israeli Settler Movement: The Road to One State?**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS

Topics in the study of Zionism and contemporary Israel from the 1880's to the present at an intermediate level. Individual sections may address history, politics, or culture.

Also offered as HIST329G and JWST319N. Credit only granted for ISRL329G, HIST329G, or JWST319N. An exploration of the Israeli settler movement in the West Bank and its rise to prominence in Israeli politics in the last two decades. We will also examine how the success of the settlers influences the prospects of a two-state solution for the Israeli-Palestinian conflict, as well as the merit of claims that Israel-Palestine is already under a "one-state" reality.

0101	Shay Hazkani	Seats (Total: 30)
	MW 2:00pm - 3:15pm	HJP 2118

ISRL329L **Special Topics in Israel Studies; Ethnic Relations in Israel**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Topics in the study of Zionism and contemporary Israel from the 1880's to the present at an intermediate level. Individual sections may address history, politics, or culture.

Also offered as SOCY398O. Credit Only granted for ISRL329L or SOCY398O. This course will examine the history and development of Israel's unique mosaic of ethnicities, including secular and religious, Mizrahim (Eastern) and Ashkenazi (Western) Jews, Christian and Muslim Palestinians, Russians, Ethiopians, and many more, including how they don't (and do) get along with each other. It will also examine various approaches to both studying and dealing with the issues that are raised by this amazing diversity.

0101	Erez Tzfadia	Seats (Total: 35)
	Class time/details on ELMs	ONLINE

ISRL329N **Special Topics in Israel Studies; The United States and Israel: Likely or Unlikely Allies?**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics in the study of Zionism and contemporary Israel from the 1880's to the present at an intermediate level. Individual sections may address history, politics, or culture.

Also offered as GVPT368B and PLCY388N. Credit only granted for ISRL329N, GVPT368B, or PLCY388N. This course examines the U.S. - Israel relationship through historical and thematic lenses. Stretching from the pre-state era through the post -Cold War alliance and the intensive U. S. role mediating Arab-Israeli peace, the course covers nearly a century of U. S. foreign policy. It will include domestic sources that have shaped U. S. policy, including public opinion, and conclude by examining scenarios for increased cooperation and managing tension in the relationship.

0101	Scott Lasensky	Seats (Total: 35)
	TuTh 9:30am - 10:45am	SQH 1119

ISRL349A **Investigating Topics in Israel Studies; The Psychology of Conflict Resolution**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics in the study of Zionism and contemporary Israel from the 1880's to the present at an intermediate level. Individual sections may address history, politics, or culture.

Contact department for information to register for this course.

ISRL349B **Investigating Topics in Israel Studies; Arab-Israeli Relations**

Credits: 3-6 Grading Method: Regular, Pass-Fail, Audit

Topics in the study of Zionism and contemporary Israel from the 1880's to the present at an intermediate level. Individual sections may address history, politics, or culture.

Contact department for information to register for this course.

ISRL349Q **Investigating Topics in Israel Studies; The Self and the "Other" in Israeli Culture: Literature, Film, and Television**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHU

Topics in the study of Zionism and contemporary Israel from the 1880's to the present at an intermediate level. Individual sections may address history, politics, or culture.

Also offered as CMLT398B, FILM329J, HEBR498Q and JWST319Q. Credit granted only for ISRL349Q, CMLT398B, FILM329J, HEBR498Q, or JWST319Q. Modern Israel includes people of many different faiths, ethnicities, languages, and cultures, but Jews of European origin have generally dominated its political and cultural climate. Through literature and film, we will explore how the sense of the "self" is constructed and how the "other" is imagined in Israeli culture. "Others" include Palestinians, Sephardim, Mizrahim, non-Zionists, women, and Eastern Europeans who do not relinquish their ties to the past, as well as other individuals who resist the collective ideologies of a nation constructing itself.

0101	Chen Edrei	Seats (Total: 40)
	TuTh 11:00am - 12:15pm	HBK 0103

ISRL349Z **Investigating Topics in Israel Studies; Beyond Black and White: Jews and Representations of Race**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU, DVUP

Topics in the study of Zionism and contemporary Israel from the 1880's to the present at an intermediate level. Individual sections may address history, politics, or culture.

Also offered as JWST319M. Credit granted for ISRL349Z or JWST319M. An examination of Western constructions and representations of 'race' from medieval times to the modern rise of Zionism and the founding of Israel, with a focus on how Jews utilized the racial discourses of each period to negotiate their position within Western history.

0101	Shirelle Doughty	Seats (Total: 40)
	Class time/details on ELMs	ONLINE

ISRL369C **Special Topics in Study Abroad; Israeli Society in Israeli Cinema**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ISRL448M **Seminar in Israel Studies; The Israeli War Discourse**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Intensive study of an Israel Studies topic. Expected work product is a substantial research or analysis paper or appropriate equivalent.

Also offered as COMM498M. Credit only granted for ISRL448M or COMM498M. This online course focuses on a unique discourse in Israel, 'war-normalizing discourse', a set of linguistic, discursive, and cultural devices that blur the anomalous characteristics of war by transforming war into a "normal" part of life. The course will examine the reciprocal relations between this discourse, Israeli culture and and society, and foreign policy.

0101	Elie Friedman Class time/details on ELMs	Seats (Total: 35) ONLINE

ITAL Italian Fall 2018

ITAL103 **Intensive Elementary Italian**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Not open to fluent/native speakers of Italian. Credit only granted for: ITAL103 or ITAL121.

Covers speaking, reading, writing, listening, and culture of Italian-speaking world.

0101	Adelina Fantoni TuTh 9:30am - 10:45am W 10:00am - 10:50am	Seats (Total: 20) JMZ 3120 ASY 3215
0201	Adelina Fantoni TuTh 11:00am - 12:15pm W 11:00am - 11:50am	Seats (Total: 20) JMZ 2206 ASY 3215
0301	Joseph Falvo MW 2:00pm - 3:15pm F 2:00pm - 2:50pm	Seats (Total: 20) JMZ 1224 JMZ 1224

ITAL121 **Accelerated Italian I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have appropriate Foreign Language Placement Test (FLPT) score. Credit only granted for: ITAL103 or ITAL121.

An intensive beginning course in Italian language skills: guided practice in reading, writing, understanding and conversation, to enable the student to move more quickly to advanced courses. Restricted to students already having a good background in at least one other foreign language. When taken with ITAL122, may be used to satisfy language requirement.

Also offered as ITAL 121H.

Contact department for information to register for this course.

ITAL121H **Accelerated Italian I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have appropriate Foreign Language Placement Test (FLPT) score. Credit only granted for: ITAL103 or ITAL121.

An intensive beginning course in Italian language skills: guided practice in reading, writing, understanding and conversation, to enable the student to move more quickly to advanced courses. Restricted to students already having a good background in at least one other foreign language. When taken with ITAL122, may be used to satisfy language requirement.

For general honors students only. Also offered as ITAL 121.

Contact department for information to register for this course.

ITAL122 **Accelerated Italian II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HO

Prerequisite: ITAL121; or must have appropriate Foreign Language Placement Test (FLPT) score. Credit only granted for: ITAL203 or ITAL122.

Continuation of ITAL121. Completion of accelerated cycle. May be used to satisfyARHU Global Engagement requirement.

Contact department for information to register for this course.

ITAL169C **Special Topics in Study Abroad I; Italian Conversation**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ITAL169E **Special Topics in Study Abroad I; Elementary Italian I**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ITAL169F **Special Topics in Study Abroad I; The Florence Experience I: Beginning Italian I**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ITAL169R **Special Topics in Study Abroad I; Introduction to Italian Language and Culture**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ITAL203 **Intensive Intermediate Italian**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit CORE: HO

Prerequisite: ITAL103; or must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not have completed ITAL122; and must not be a fluent/native speaker of Italian. Credit only granted for: ITAL203 or ITAL122.

Covers speaking, reading, writing, listening, and culture of Italian-speaking world.

0101	Adelina Fantoni	Seats (Total: 25)
	Th 2:00pm - 3:15pm	JMZ 0205
	Tu 2:00pm - 3:15pm	JMZ 0208
	W 2:00pm - 2:50pm	JMZ 1122

ITAL204 **Review Grammar and Composition**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HO

Prerequisite: ITAL203 or ITAL122; or must have appropriate Foreign Language Placement Test (FLPT) score.

An intensive review of major aspects of contemporary grammatical usage; training in comprehension; an introduction to guided composition.

0101	Stefania Amodeo	Seats (Total: 20)
	MWF 11:00am - 11:50am	JMZ 1226

ITAL207 **Reading and Writing in Italian**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU

Prerequisite: ITAL204; or students who have taken courses with comparable content may contact the department. Restriction: Must not be a fluent/native speaker of Italian.

Culture-based, process approach to reading and writing in Italian; selected grammatical topics.

0101	Joseph Falvo	Seats (Total: 20)
	MWF 1:00pm - 1:50pm	JMZ 0103

ITAL211 **Intermediate Conversation**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO

Prerequisite: ITAL203; or permission of ARHU-School of Languages, Literatures, and Cultures department. Restriction: Must not be a fluent/native speaker of Italian.

Practice in spoken Italian based on reading and listening exercises in variety of genres. Written assignments and exams.

Contact department for information to register for this course.

ITAL261 **Cuisine, Culture, and Society in Italy Yesterday and Today**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO

Prerequisite: ITAL204; or permission of ARHU-School of Languages, Literatures, and Cultures department.

Exposes students to an important aspect of Italian culture: the art of gastronomy. Provides an in-depth understanding of the close relationship between food and culture, while enriching their knowledge of the Italian language through reading and analysis of various texts which deal with the preparation and adaptation of Italian food in different cultural settings. Taught in Italian.

0101	Stefania Amodeo	Seats (Total: 20)
	MWF 10:00am - 10:50am	JMZ 2206

ITAL269C **Special Topics in Study Abroad II; Italian Culture at the Movies**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ITAL269I **Special Topics in Study Abroad II; Intensive Intermediate Italian I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ITAL269R **Special Topics in Study Abroad II; Elementary Italian I**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ITAL301 **Italian Composition**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ITAL207; or students who have taken courses with comparable content may contact the department.

Techniques of composition; grammatical analysis; various genres; vocabulary.

Contact department for information to register for this course.

ITAL306 **Commercial Italian I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ITAL301; or permission of ARHU-School of Languages, Literatures, and Cultures department.

An introduction to Italian Business language and culture. Special emphasis on communicative strategies used in business transactions and applications. Reading and discussion of relevant articles relating to business world from on-line newspapers and magazines.

Contact department for information to register for this course.

ITAL361 **Survey of Italian Society and Culture: From Fascism to the Seventies**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ITAL207.

Development of Italian society and culture from Fascism to the 1970s. Literature, cinema, economy, popular culture, and daily life. Taught in Italian.

0101	Stefania Amodeo	Seats (Total: 20)
	MWF 1:00pm - 1:50pm	JMZ 0205

ITAL369F **Special Topics in Study Abroad III; Florence: The Story of the City**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ITAL369W **Special Topics in Study Abroad III; Composition and Style**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ITAL386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Prerequisite: Must have a Learning Proposal approved by the Office of Experiential Learning Programs, faculty sponsor, and student's internship sponsor. Restriction: Junior standing or higher.

Contact department for information to register for this course.

ITAL399 **Directed Study in Italian**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Intended for undergraduates who wish to work on an individual basis with a professor of their choice.

Contact department for information to register for this course.

ITAL399T **Directed Study in Italian; Italian Tutoring**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Intended for undergraduates who wish to work on an individual basis with a professor of their choice.

0101	Adelina Fantoni	Seats (Total: 1)
	Contact instructor or department for details.	

ITAL411 **Monsters and Demons: the Faces of Evil in Dante's Inferno**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU

An interdisciplinary study of Dante's Inferno as represented in the Divine Comedy. Special emphasis on Dante's own portrayal of monsters and demons and their roles in the poet's eschatological vision of Hell.Taught in English

Contact department for information to register for this course.

ITAL431 **Italian Civilization in Translation**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: ITAL431 or ITAL432.

Political, social, intellectual, literary and artistic forces shaping contemporary Italy from the late Middle Ages to the present. Taught in English.

Contact department for information to register for this course.

ITAL436 **Italian Cinema I: Neorealism**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Also offered as: FILM441. Credit only granted for: FILM441 or ITAL436.

Explores representations of Italy in cinema with special focus on identity formation and the movement of Italian neorealism and post neorealism. Taught in English.

0101	Mauro Resmini	Seats (Total: 25)
	MW 2:00pm - 3:15pm	TWS 1320

ITAL471 **Italian Cinema: A Cultural Approach in Translation**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: ITAL471 or ITAL472.

The culture of Italy through the medium of film from the silent days up to the present. Taught in English.

Contact department for information to register for this course.

ITAL478C **Colloquium in Italian**

Credits: 1 | Grading Method: Regular, Pass-Fail, Audit

Colloquium section taught in Italian to accompany 400-level Italian courses taught in English. Discussion, presentations, readings.

0101	Mauro Resmini	Seats (Total: 10)
	W 3:20pm - 4:10pm	TWS 1321

ITAL499 **Special Topics in Italian Studies**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

ITAL499T **Special Topics in Italian Studies; Italian Cities: History through Urban Form**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

ITAL499V **Special Topics in Italian Studies; Italian Comedy on Stage and Screen**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

JAPN Japanese Fall 2018

JAPN101 **Elementary Japanese I**

Credits: 6 Grading Method: Regular

Prerequisite: Must have appropriate Foreign Language Placement Test (FLPT) score.

Introduction to basic patterns of contemporary spoken Japanese and to the two phonetic syllabaries (Katakana and Hiragana).

The Japanese program invites all students who have placed into Japn102 (a spring course) this summer to contact Professor Yamakita (yamakita@umd.edu) for a discussion of a 3-credit course she is offering this fall at the appropriate 102 level, to be followed by a second 3-credit 102-replacement course in Spring. We don't want you to have to for 1/2 a year to continue on in your Japanese! This course has been put on a timed release system. Seats will be opened gradually by the registrar's office, to a total of 15 seats per section.

0101	Etsuko Yamakita, Robert Del Greco	Seats (Total: 15)
	MWF 10:00am - 10:50am	JMZ 1226
	TuTh 9:30am - 10:45am	JMZ 2120

0201	Etsuko Yamakita, Robert Del Greco MWF 11:00am - 11:50am TuTh 11:00am - 12:15pm	Seats (Total: 15) JMZ 2206 JMZ 2207
0301	Etsuko Yamakita, Robert Del Greco MWF 2:00pm - 2:50pm TuTh 2:00pm - 3:15pm	Seats (Total: 15) JMZ 0122 JMZ 0122

JAPN201 **Intermediate Japanese I**

Credits: 6 Grading Method: Regular CORE: HO

Prerequisite: Minimum grade of C- in JAPN102; or or appropriate Foreign Language Placement Test (FLPT) score.

Contemporary spoken and written Japanese.

0101	Kumiko Akikawa MWF 11:00am - 12:50pm	Seats (Total: 15) JMZ 3120
0201	Kumiko Akikawa MWF 1:00pm - 2:50pm	Seats (Total: 15) JMZ 2125

JAPN221 **Radical Transformations in Japanese Culture**

Credits: 3 Grading Method: Regular General Education: DSHU

Since the early modern period, Japanese cultural forms have reflected the innate instability of contemporary social structures. Focusing on Noh drama, Matsuo Basho's haiku travelogue Oku no hosomichi, popular fiction by Ihara Saikaku, the movement for vernacular literature in the late 19th century, the rise and fall of Marxists and feminists in early 20th century Japan, a variety of perspectives on WWII and its legacy, as well as Japanese pop culture, we will consider the way cultural works developed as part of Japan's radical transformations in the last four centuries. A major film component increases students' direct exposure to the work of Japan's cultural producers, and students' suggestions and interests will help shape the final unit of the course about Japan today. Taught in English, and all readings are in English translation.

0101	Robert Del Greco MW 2:00pm - 3:15pm	Seats (Total: 30) JMZ 0205

JAPN301 **Advanced Japanese I**

Credits: 6 Grading Method: Regular

Prerequisite: Minimum grade of C- in JAPN202; or permission of instructor.

Advanced conversation, oral comprehension, and selected readings.

0101	Makiko Inoue MWF 11:00am - 12:50pm	Seats (Total: 15) JMZ 3122
0201	Makiko Inoue MWF 1:00pm - 2:50pm	Seats (Total: 15) JMZ 2207

JAPN311 **Traditional Japanese Language and Culture**

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in JAPN202; or permission of instructor.

Introduction to classical Japanese language (kobun) through representative texts and genres from the literary traditions of the Heian period (794-1185) to the Early Modern period (1600-1868). Taught in Japanese and English.

0101	Jyana Browne TuTh 11:00am - 12:15pm	Seats (Total: 15) WDS 1130

JAPN386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Prerequisite: Must have a Learning Proposal approved by the Office of Experiential Learning Programs, faculty sponsor, and student's internship sponsor. Restriction: Junior standing or higher.

Contact department for information to register for this course.

JAPN402 **Readings in Japanese Cultural Studies**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in JAPN302; or permission of instructor.

Development of advanced reading, vocabulary, grammar, and translation skills through selected readings in Japanese drawn from the fields of history, social sciences, cultural studies, film studies, and popular culture.

0101	Michele Mason TuTh 2:00pm - 3:15pm	Seats (Total: 15) JMZ 2120

JAPN421 **History of the Japanese Language**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: JAPN201; or permission of ARHU-School of Languages, Literatures, and Cultures department.

Investigation of the origin of the Japanese language, its relationship with other languages, and its development. Taught in English, but presumes knowledge of Kanji (Chinese characters).

0101	Samuel Ramsey	Seats (Total: 20)
	MW 2:00pm - 3:15pm	JMZ 2122

JAPN424 Japan From the Margins

Credits: 3 Grading Method: Regular General Education: DVUP

Credit only granted for: JAPN498B or JAPN424. Formerly: JAPN498B.

Japan from the Margins takes as its focus the history and representations of various others in Japanese society. They include ethnic Ainu, Okinawans, and Koreans, a historical outcaste group called the Burakumin, and people marginalized for their non-normative gender and sexual practices. Students learn about the historical specificities of each group as well as their common experiences of institutional discrimination as they grapple with larger questions regarding prejudice, nationalism, and social justice. Taught in English.

Taught in English. Fulfills literature/cultural studies elective for major/minor.

0101	Michele Mason	Seats (Total: 30)
	TuTh 11:00am - 12:15pm	HBK 0123

JAPN428B Seminar in Japanese Discourse and Conversation Analysis; Japanese Business Language

Credits: 3 Grading Method: Regular

Presentation and discussion of classic and current readings in English and Japanese on theories and actual practice of discourse and conversation analysis. Students will learn transcription techniques and have an opportunity to apply them in a final term paper.

Prerequisite: C- or better in JAPN 302 or equivalent score on FLPA. This course will introduce Japanese business language and practices from a cross-cultural, cross-linguistic perspective and is designed for intermediate to advanced level learners. Class discussions in English and Japanese will be based on oral and written samples of authentic discourse, and will acquaint students with business terminology and kanji, as well as the genres of business telephone conversations and business e-mail correspondence. Readings will be drawn from relevant fields including pragmatics, conversation and discourse analysis, anthropological linguistics, and ethnomethodology. Two to three case studies on multinational companies conducted by the Wharton School of Business will also be examined. Taught in English.

0101	Lindsay Yotsukura	Seats (Total: 20)
	TuTh 12:30pm - 1:45pm	JMZ 2207

JAPN498T **Special Topics in Japanese Studies; Literary Journeys: Travel in Premodern Japan**

Credits: 3 Grading Method: Regular

Special topics in Japanese studies. Taught in English.

Literary Journeys investigates the theme of travel in premodern Japanese literature through close readings of travel diaries, poetry collections, folk tales, novels, and plays. Through these texts, we will journey to the capital, the countryside, and supernatural realms. We will examine how stories of travel shaped ideas of identity, spirituality, place, and and national culture. Taught in English.

0101	Jyana Browne	Seats (Total: 30)
	TuTh 2:00pm - 3:15pm	HBK 1108

JAPN499 **Directed Study in Japanese**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail

Contact department for information to register for this course.

JOUR Journalism Fall 2018

JOUR130 **Self-Presentation in the Age of YouTube**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: FSOC

Credit only granted for: COMM107, COMM200, ENES143, INAG110, JOUR130 or THET285. Additional information: May not count toward the Journalism major.

Students, as they make use of evolving technologies, need to be able to present themselves effectively in front of any number of different audiences through any number of different outlets. Whether in an interview on radio, a guest presentation at a conference, in comments on a video blog, in commentary on TV, in the lead on a self-produced YouTube video, or as spokesperson in front of investors or management, professionals need strong oral communication skills. This class focuses on strengthening those skills through active individual and group presentations, as well as, through discussion of key techniques and group critique of presentation publicly available in the social media space on sites such as YouTube.

Restricted to New Freshman only.

0101	Katherine McAdams	Seats (Total: 24)
	MW 9:30am - 10:45am	KNI 1103

FC01	Kelly Stepno MW 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 22) KNI 1103
FC02	Colleen Phelps MW 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 22) KNI 1105
FC03	Renee Poussaint TuTh 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 22) KNI 1208
FC04	Kelly Stepno MW 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 22) KNI 1103
FC05	Mark Gray TuTh 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 22) KNI 3202

JOUR150 **Introduction to Mass Communication**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: SB	General Education: DSHS, DSSP

Additional information: Not applicable toward journalism major.

Survey of the functions and effects of the mass media in the United States. A consumer's introduction to newspapers, television, radio, film, sound recording, books, magazines, and new media technology.

0101	Krishnan Vasudevan TuTh 12:30pm - 1:45pm	Seats (Total: 36) KNI 1208
0201	Justin Hudson TuTh 2:00pm - 3:15pm	Seats (Total: 30) KNI 1103
0301	Nandikoor Bhat TuTh 12:30pm - 1:45pm	Seats (Total: 35) KNI 3202
0401	Denitsa Yotova Class time/details on ELMs	Seats (Total: 35) ONLINE

0501	Denitsa Yotova Class time/details on ELMs	Seats (Total: 35) ONLINE

JOUR175 **Media Literacy**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: IE, D | General Education: DSSP, DVUP

Additional information: Not applicable toward journalism major.

An analysis of the information, values and underlying messages conveyed via television, newspapers, the internet, magazines, radio and film. Examines the accuracy of those messages and explores how media shape views of politics, culture and society.

0101	Susan Moeller Class time/details on ELMs *Mandatory synchronous online meetings 6-7pm on 8/27, 9/24, 10/22, 11/19 Online, real-time ELMS Chat" office hours Tuesdays 9:30 - 10:30am.*	Seats (Total: 60) ONLINE
0102	Sohana Nasrin TuTh 2:00pm - 3:15pm	Seats (Total: 35) VMH 1203
0103	Bobbie Foster TuTh 2:00pm - 3:15pm	Seats (Total: 35) KNI 3202
0104	Sholpan Kozhamkulova TuTh 2:00pm - 3:15pm	Seats (Total: 35) SYM 0215
0105	Hazel Feigenblatt Rojas Class time/details on ELMs *Mandatory synchronous online meetings 6-7pm on 8/27, 9/24, 10/22, 11/19*	Seats (Total: 35) ONLINE

JOUR181 **Grammar for Journalists**

(Perm req)

Credits: 1 | Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: ENGL181, ENGL281, or JOUR181.

The basic grammatical structures of standard American written English and its conventions of punctuation, diction and usage in journalistic writing.

0101	Linda Coleman W 3:00pm - 3:50pm	Seats (Total: 170) LEF 2205
0201	Linda Coleman W 1:00pm - 1:50pm	Seats (Total: 70) KNI 1208
FC01	Nabila Hijazi W 3:00pm - 3:50pm *Restricted to students in Freshman Connection.*	Seats (Total: 35) EDU 1107

JOUR199 **Survey Apprenticeship**

(Perm req)

Credits: 1 Grading Method: Sat-Fail

College-monitored experience in approved mass-communications organizations and industries.

0101	Adrianne Flynn Contact instructor or department for details.	Seats (Total: 40)

JOUR200 **Journalism History, Roles and Structures**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Introduction to the study of journalism from the standpoint of media history and sociology.

Non-journalism majors should contact the College of Journalism at (301) 405-2399 for permission to register.

0101	Edward Alwood MW 9:30am - 10:45am *Open to prospective journalism majors.*	Seats (Total: 30) KNI 1208
0201	Kevin Klose MW 11:00am - 12:15pm *Open to prospective journalism majors.*	Seats (Total: 30) KNI 3202
0301	Ira Chinoy TuTh 11:00am - 12:15pm *Restricted to Journalism majors only.*	Seats (Total: 30) KNI 1208

0401	Krishnan Vasudevan TuTh 11:00am - 12:15pm *Restricted to Journalism majors only.*	Seats (Total: 30) KNI 1103
0501	Ira Chinoy TuTh 9:30am - 10:45am *Restricted to Journalism majors only.*	Seats (Total: 30) KNI 1208
0601	Edward Alwood MW 11:00am - 12:15pm *Restricted to Journalism majors only.*	Seats (Total: 30) KNI 1208
FC01	Carole Lee MW 4:30pm - 5:45pm *Restricted to students in Freshman Connection.*	Seats (Total: 34) KNI 3202

JOUR201 **News Writing and Reporting I**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in ENGL101, JOUR181, and JOUR200; and permission of JOUR-Philip Merrill College of Journalism. Restriction: For students intending to be journalism majors; and permission of JOUR-Philip Merrill College of Journalism.

Introduction to news for the print and electronic media, development of new concepts: laboratory in news-gathering tools and writing skills. Students who earned 80% or higher on the JOUR181 diagnostic are exempt from the JOUR181 prerequisite.

0201	Constance Ford MW 12:00pm - 1:50pm	Seats (Total: 18) KNI 2105
0301	Merrilee Cox TuTh 10:00am - 11:50am	Seats (Total: 18) KNI 1101

JOUR202 **News Editing**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Must have completed or be concurrently enrolled in JOUR203. Restriction: Must be in a major in JOUR-Philip Merrill College of Journalism.

Copy editing, fact checking, verification and research across media platforms, including social, with consideration of story play and placement, graphic principles, headlines and SEO.

0101	Brian Cleveland MW 5:00pm - 6:50pm	Seats (Total: 18) KNI 2103
0201	Lisa Lednicer TuTh 2:00pm - 3:50pm	Seats (Total: 18) KNI 2105
0301	Jay Goldman TuTh 7:00pm - 8:50pm	Seats (Total: 18) KNI 2105

JOUR203 **Introduction to Multimedia Skills**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: JOUR201. Restriction: Must be in a major in JOUR-Philip Merrill College of Journalism. Credit only granted for: JOUR203 or JOUR328G. Formerly: JOUR328G.

Examining the basics of producing and editing digital photos, video, and audio. Topics include: framing, lighting, and other aspects of composition; sequencing, using wide, medium, and tight shots; and ethical considerations when collecting sound and visuals.

0101	Timothy Jacobsen F 9:00am - 11:45am	Seats (Total: 18) KNI 2107
0201	Jennifer Rynda Tu 12:00pm - 2:45pm	Seats (Total: 18) KNI 1101
0301	Timothy Jacobsen W 4:00pm - 6:45pm	Seats (Total: 18) KNI 1101
0401	Jaclyn Borowski M 7:00pm - 9:45pm	Seats (Total: 18) KNI 1101
0501	Shanaz Baksh W 12:00pm - 2:45pm	Seats (Total: 18) KNI 2103
0601	Graham Cullen M 10:00am - 12:45pm	Seats (Total: 18) KNI 2103

JOUR262 **News Videography**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: JOUR203. Also offered as: JOUR603. Credit only granted for: JOUR262 or JOUR603.

Introduction to shooting, editing and production of video stories for broadcast and the Web; includes newsgathering in the field.

0101	Bethany Swain MW 12:00pm - 1:50pm	Seats (Total: 10) TWS 0222B
0201	Bethany Swain MW 10:00am - 11:50am	Seats (Total: 10) TWS 0222B
0301	Luke Rollins MW 7:00pm - 8:50pm	Seats (Total: 10) TWS 0222A

JOUR289E **Media Law and Ethics in the Digital Age**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, SCIS

This course is intended for non-journalism majors. Explore the First Amendment, libel, privacy, FOIA and copyright as they have evolved in the digital news age of bloggers, tweeters and citizen journalists. The course will cover fundamental legal and ethical concepts as well as practical application.

0101	Deborah Nelson Class time/details on ELMs	Seats (Total: 80) ONLINE

JOUR289J **Probing War: Investigative Narratives and American Conflicts**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HL | General Education: DSHU, SCIS

In this course, we will explore the realities of war through the work of journalists who pushed beyond the daily headlines, some risking life and limb, to challenge official versions and document uncomfortable realities about American conflicts.

0101	Christopher Hanson MW 11:00am - 12:15pm	Seats (Total: 30) KNI 1103

JOUR289P **Scandal: Exposing Corruption, Justice, and Vice in America**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, SCIS

Credit will only be granted for JOUR289P or HONR239J. Students will examine the nature and meaning of scandals in society: how they are uncovered and constructed; why some forms of wrongdoing are considered scandalous but not others; how this definition has changed over time; and how scandals resonate in ways that reflect societal norms

0101	Mark Feldstein M 1:00pm - 3:45pm	Seats (Total: 60) KNI 1208

JOUR300 **Journalism Ethics**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: JOUR201. Restriction: Must be in a major in JOUR-Philip Merrill College of Journalism.

Examination of ethical problems in news writing and reporting.

0101	Christopher Hanson Tu 4:15pm - 7:00pm	Seats (Total: 30) KNI 1208
0301	Merrilee Cox TuTh 2:00pm - 3:15pm	Seats (Total: 30) KNI 1105

JOUR320 **News Writing and Reporting II: Multiplatform**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in JOUR201. Restriction: Must be in a major in JOUR-Philip Merrill College of Journalism.

Principles and practices of news reporting; covering news beats and other news sources, including researching news stories for accuracy, comprehensiveness and interpretation. Due to rigorous publication requirement, plan your schedule accordingly.

0101	David Lightman MW 8:00am - 9:50am	Seats (Total: 18) KNI 2103
0201	Thomas Linthicum MW 7:00pm - 8:50pm	Seats (Total: 18) KNI 2105
0301	Marissa Lang TuTh 7:00pm - 8:50pm	Seats (Total: 18) KNI 2103

JOUR325 **Capital News Service Bureau**

(Perm req)

Credits: 9

Grading Method: Regular, Pass-Fail, Audit

General Education: DSSP

Prerequisite: JOUR320; and permission of JOUR-Philip Merrill College of Journalism.

Advanced journalism training. Students report as part of college's Capital News Service program.

Also offered as JOUR625. Students must contact the instructor for permission to register.

0101	James Carroll Contact instructor or department for details. *This section meets in the National Press Building, Washington, DC.*	Seats (Total: 9)
0201	Karen Denny Contact instructor or department for details. *This section meets in the CNS Bureau, Annapolis, MD.*	Seats (Total: 9)
0301	Sean Mussenden, Adam Marton Contact instructor or department for details.	Seats (Total: 9)
0401	Brooke Auxier, Sean Mussenden Contact instructor or department for details.	Seats (Total: 8)

JOUR327 **Urban Affairs Reporting**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

General Education: DSSP

Prerequisite: JOUR320; and permission of instructor. Also offered as: JOUR627. Credit only granted for: JOUR327 or JOUR627.

Students are immersed in coverage of issues affecting cities, working on a semester-long multi-platform reporting project based in Baltimore.

Students will use Baltimore as a working laboratory to report on urban issues. Course meets in Baltimore.

0101	Sandra Banisky M 1:45pm - 4:30pm	Seats (Total: 7) Location: TBA

JOUR328F **Special Topics in News Writing and Reporting; National Security and Press Freedom Reporting**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Advanced training and practice in writing and reporting news.

Prerequisite: JOUR320; Credit granted for: JOUR328F, JOUR328N or JOUR462 . Students will learn to research and report on select U.S. agencies, on bilateral relations, on Washington's many national security resources, and on press freedom problems overseas.

0101	Dana Priest M 2:30pm - 5:15pm	Seats (Total: 8) KNI 3200

JOUR328M **Special Topics in News Writing and Reporting; Magazine Journalism**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Advanced training and practice in writing and reporting news.

Prerequisite: JOUR320. Students will be introduced to the magazine publishing industry, which grew over the last decade despite the economic downturn and now faces new challenges from emerging digital platforms and changing consumer habits.

0101	Sarah Schaffer Tu 5:00pm - 7:45pm	Seats (Total: 18) KNI 2107

JOUR350 **Multimedia Presentation**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in JOUR202; or minimum grade of C- in JOUR262. Credit only granted for: JOUR350 or JOUR373.

An examination of the relationship of verbal and visual components of news content and the presentation of information in print and online publications by combining typography, graphics, images and interactivity using current digital technologies.

0101	George Lanum TuTh 12:00pm - 1:50pm	Seats (Total: 18) KNI 2103

JOUR352 **Interactive Design and Development**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: JOUR203. Restriction: Must be in a major in JOUR-Philip Merrill College of Journalism. Also offered as: JOUR352. Credit only granted for: JOUR352 or JOUR652.

Conceptualize, wireframe, design and build responsive Web pages using HTML, style sheets and other coding tools; work with open source interactive tools, JavaScript libraries, multimedia and text to create charts, timelines, maps and other forms of nonfiction storytelling.

0201	Alexander Pyles TuTh 5:00pm - 6:50pm	Seats (Total: 18) KNI 2105
0301	Leslie Walker W 11:00am - 1:45pm	Seats (Total: 18) KNI 2107
0401	Leslie Walker M 1:00pm - 3:45pm	Seats (Total: 18) KNI 2107
0501	Gagan Nirula Th 7:00pm - 9:45pm	Seats (Total: 18) KNI 1101

JOUR353 **News Bureau: Multimedia Reporting**

(Perm req)

Credits: 6 Grading Method: Regular, Audit General Education: DSSP

Prerequisite: JOUR352; and permission of JOUR-Philip Merrill College of Journalism; and (JOUR320 or JOUR360).

Advanced reporting and writing in an online environment focusing on multimedia, non-traditional storytelling and investigative reporting.

Students must contact the instructor for permission to register for the course. College Park students should enroll in section 0101. Annapolis students should enroll in section 0201. Washington, D.C. students should enroll in section 0301.

0201	Karen Denny Contact instructor or department for details.	Seats (Total: 7)
0301	James Carroll Contact instructor or department for details.	Seats (Total: 7)
0401	Deborah Nelson Contact instructor or department for details. *This section is for Investigative Reporting students.*	Seats (Total: 7)
0501	Thomas Bettag Contact instructor or department for details. *This section is for Field Producing students.*	Seats (Total: 7)

JOUR355 **News Bureau: Multimedia Editing and Production**

(Perm req)

Credits: 6 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

Prerequisite: JOUR320 or JOUR360; and JOUR352; and permission of JOUR-Philip Merrill College of Journalism.

Advanced online journalism training. Students work as multimedia and social media editors and producers, building interactive content and special reports.

0101	Sean Mussenden, Adam Marton Contact instructor or department for details.	Seats (Total: 10)
0201	Sean Mussenden, Brooke Auxier Contact instructor or department for details.	Seats (Total: 8)

JOUR357 **Capital News Service Broadcast Immersion**

(Perm req)

Credits: 6 | Grading Method: Regular, Audit

Prerequisite: JOUR361; and permission of JOUR-Philip Merrill College of Journalism.

Advanced broadcast journalism training. Students report as part of the College's Capital News Service program.

0101	Susan Katcef Contact instructor or department for details.	Seats (Total: 6)

JOUR360 **News Writing and Reporting II: Broadcast**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in JOUR201. Restriction: Must be in a major in JOUR-Philip Merrill College of Journalism.

Writing and reporting for broadcast media: production of news stories.

0101	George Lettis M 3:30pm - 4:45pm W 3:30pm - 4:45pm	Seats (Total: 18) KNI 1101 KNI 2103
0201	Stuart Schwartz TuTh 12:30pm - 1:45pm	Seats (Total: 18) KNI 2107

JOUR361 **Television Reporting and Production**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: JOUR262 and JOUR360.

Writing and editing for the broadcast media. Interpretive and documentary news stories.

Due to rigorous fieldwork requirement, plan your schedule accordingly.

0101	Joshua Davidsburg TuTh 12:00pm - 1:50pm	Seats (Total: 11) TWS 0222B	
0301	Peter Muntean TuTh 12:00pm - 1:50pm	Seats (Total: 12) TWS 0222A	
0401	Adam Longo MW 12:00pm - 1:50pm	Seats (Total: 12) TWS 0222A	
0501	Joshua Davidsburg TuTh 10:00am - 11:50am	Seats (Total: 12) TWS 0222B	

JOUR362 **Broadcast News Producing**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: JOUR262 and JOUR360; and must have completed or be concurrently enrolled in JOUR361.

Producing TV news.

0102	Cindy Wright Tu 7:15pm - 9:15pm Tu 2:00pm - 6:50pm	Seats (Total: 2) TWS 0117 TWS 0117	 Lab
0103	Cindy Wright Tu 7:15pm - 9:15pm W 2:00pm - 6:50pm	Seats (Total: 1) TWS 0117 TWS 0117	 Lab
0104	Cindy Wright Tu 7:15pm - 9:15pm Th 2:00pm - 6:50pm	Seats (Total: 2) TWS 0117 TWS 0117	 Lab

JOUR364 **Radio Broadcasting**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: JOUR360; and permission of JOUR-Philip Merrill College of Journalism. Credit only granted for: JOUR364 or JOUR368R. Formerly: JOUR368R.

Students receive hands-on training in applying what they have learned about news reporting to the preparation of stories for, and the production of, a weekly radio program.

0101	Robert Little	Seats (Total: 10)
	W 5:30pm - 8:15pm	TWS 0222B

JOUR367 **Broadcast News Bureau**

(Perm req)

Credits: 9 Grading Method: Regular, Audit General Education: DSSP

Prerequisite: JOUR361; and permission of JOUR-Philip Merrill College of Journalism.

Advanced broadcast journalism training. Students report as part of the college's Capital News Service program.

Also offered as JOUR667.

0101	Susan Katcef	Seats (Total: 15)
	Contact instructor or department for details.	

JOUR368K **Topics in Broadcast and Electronic Media; Video Innovation**

(Perm req)

Credits: 3 Grading Method: Regular

Advanced research, analysis and/or practice of selected topics in broadcast journalism.

Prerequisite: JOUR361 and permission of the instructor (jdavidsb@umd.edu). Students will explore the intersection between social media, video and a live broadcast by creating new and innovative ways to "broadcast" news to an audience. The class will encourage an entrepreneurial spirit and give students the opportunity to produce a show from scratch, with content aired on UMTV and online. In addition to creating television, students will support the broadcast arm of Capital News Service by managing volunteers, filling in on the studio staff and producing special projects and graphics when necessary.

0101	Joshua Davidsburg	Seats (Total: 8)
	Tu 2:45pm - 5:30pm	TWS 0222B

JOUR368Y **Topics in Broadcast and Electronic Media; Sports Producing**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Advanced research, analysis and/or practice of selected topics in broadcast journalism.

Prerequisite: JOUR262 and JOUR360; or JOUR320. This class will take an analytical look at sports TV and sports content by deconstructing shows. We will examine the producer's role in creating the look, feel and direction of shows and learn how to choose a lead story, how to "tease" effectively and the importance of identifying and telling good stories. We will watch live televised sporting events to better understand the techniques used by directors and producers. Students will get hands-on experience with BTN2GO and learn all aspects of live game production.

0101	Joseph Yasharoff	Seats (Total: 12)
	W 7:00pm - 9:45pm	KNI 2103

JOUR370 **Photojournalism**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: JOUR320 or JOUR360. Credit only granted for: JOUR 368P, JOUR 370 or JOUR 670. Formerly: JOUR 368P. Additional information: Students are required to borrow, rent or purchase a 35mm digital camera. Contact department for camera specifications.

Examining the basics of shooting, editing and storytelling with still photos taken with 35mm digital cameras. Students shoot portraits, feature photos and action shots. Final project is a photo story/essay.

0201	Jonathan Sham	Seats (Total: 12)
	M 7:00pm - 9:45pm	KNI 2103

JOUR382 **Sports Writing and Reporting**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: JOUR320; and permission of JOUR-Philip Merrill College of Journalism. Credit only granted for: JOUR328B or JOUR382. Formerly: JOUR328B.

Gives students full and wide-ranging instruction in all aspects of sports reporting and writing, including how to report, write, edit and lay out sports stories, incorporating photography and multimedia. We will also discuss ethics, objectivity, fairness and the future of sports journalism.

0101	George Solomon	Seats (Total: 15)
	M 12:00pm - 2:45pm	KNI 1206

JOUR396 **Supervised Internship**

(Perm req)

Credits: 2 Grading Method: Regular

Prerequisite: Must have earned a grade of C- or better in JOUR320 or JOUR360. Restriction: Must be in a major in JOUR-Philip Merrill College of Journalism. Credit only granted for: JOUR326, JOUR366, or JOUR396.

Students will complete a minimum of 90 hours in a supervised journalism internship over a minimum of 10 weeks in spring and fall, and eight weeks in summer. Emphasis is on relating academic training to professional experience. Students may pick up an internship proposal form in KNI 1100, have their internship supervisor fill it out, and meet with the college's internship director to receive permission to register. No requests to register after the Schedule Adjustment Period will be granted. This requirement would affect incoming freshmen from the fall 2012 class.

0101	Adrianne Flynn	Seats (Total: 45)
	Contact instructor or department for details.	

JOUR398 **Independent Study**

(Perm req)

Credits: 1-3 Grading Method: Regular

Individual projects in journalism.

Contact department for information to register for this course.

JOUR399 **Supervised Internship**

(Perm req)

Credits: 1 Grading Method: Regular

Supervised news internship experience; relation of academic training to professional experience.

Prerequisite: Grade of C- or better in JOUR320 or JOUR360. Credit will be granted for only one of the following: JOUR326, JOUR366, JOUR396 or JOUR399. Supervised news internship experience; relation of academic training to professional experience. Students must pick up an internship agreement form in KNI 1100, have the internship supervisor fill it out, and meet with the Internship Director to receive permission to register. No requests to register after the Schedule Adjustment Period will be granted.

0101	Adrianne Flynn	Seats (Total: 75)
	Contact instructor or department for details.	

JOUR400 **Media Law**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: JOUR320, JOUR360, or JOUR501. Restriction: Junior standing or higher.

Legal rights and constraints of mass media; libel, privacy, copyright, monopoly, contempt, and other aspects of the law applied to mass communication. Previous study of the law not required.

Restricted to students having earned at least 60 credits.

0101	Deborah Nelson M 4:00pm - 5:15pm Class time/details on ELMs	Seats (Total: 52) KNI 1208 ONLINE
0201	Sandra Banisky TuTh 11:00am - 12:15pm	Seats (Total: 41) KNI 3202

JOUR405 **Breaking News With Numbers: Statistics for Journalists**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: FSAR

Prerequisite: Minimum grade of C- in JOUR201; and (MATH107 or MATH110; or must have completed a higher level math course). Or have permission of the instructor. Restriction: Must be in a major in JOUR-Philip Merrill College of Journalism. Credit only granted for: BIOM301, BMGT230, CCJS200, ECON230, ECON321, EDMS451, GEOG306, GEOL351, GVPT422, INST314, JOUR405, PSYC200 or SOCY201. (These courses do not necessarily meet the same major requirements-check with your advisor to see which of these courses will count for your major).

Common statistical tools, software and data visualization techniques will be used to allow students to analyze data and solve problems relevant to reporting and writing about politics, sports, criminal justice, business and other fields.

0101	Tom Brune Class time/details on ELMs	Seats (Total: 38) ONLINE

JOUR452 **Women in the Media**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit , D General Education: DVUP

Restriction: Junior standing or higher. Also offered as: WMST452. Credit only granted for: JOUR452 or WMST452.

Participation and portrayal of women in the mass media from colonial to contemporary times.

0101	Renee Poussaint TuTh 5:00pm - 6:15pm	Seats (Total: 30) KNI 3202

JOUR453 **News Coverage of Racial Issues**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | , D | General Education: DVUP

Restriction: Junior standing or higher.

Analysis of news media coverage of issues relating to racial minorities in the United States, with special attention to Hispanics, Asian Americans, African Americans and Native Americans.

Also offered as AASP 499N.

0101	Anne Rosen	Seats (Total: 25)
	TuTh 9:30am - 10:45am	KNI 3202

JOUR458B **Special Topics in Journalism; Sports Media Today**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Issues of special concerns and current interest.

Students will discuss working with various organizations' communications/media relations staff, coaches and players; distributing news of the organizations; and creating/maintaining methods for disseminating the news to the public in an honest and forthright manner. Also, traditional, digital and social media elements will be explored. Restriction: Junior Standing or higher.

0101	Rose DiPaula	Seats (Total: 26)
	W 9:00am - 11:45am	TYD 2108

JOUR458M **Special Topics in Journalism; Sports, Protest, and the Media**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Issues of special concerns and current interest.

This class will examine the development of our games, the history of of remonstration upon them and the machinations of media at the intersection of the two. It will answer why activists, whether athletes or not, have long commanded ceremonial and ritualistic games to promote a cause or take a stand. It will examine how important the role is of media as a collector, editor, interpreter, and disseminator of information, or news, about athletic competitions, athletes, and political pronouncements revolving around athletic events and their participants.

0101	Kevin Blackistone	Seats (Total: 16)
	MW 10:00am - 11:15am	KNI 1206

JOUR459F **Special Topics in Journalism; Media in War and Crisis**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Issues of special concern and current interest. Open to all students.

Contact department for information to register for this course.

JOUR459K **Special Topics in Journalism; Global Media and International Journalism in the 21st Century**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Issues of special concern and current interest. Open to all students.

Contact department for information to register for this course.

JOUR459L **Special Topics in Journalism; European Mass Media**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Issues of special concern and current interest. Open to all students.

Contact department for information to register for this course.

JOUR459T **Special Topics in Journalism; Press Freedom and Fake News: A Global Battle for Political Power**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Issues of special concern and current interest. Open to all students.

This class will examine the emerging tensions and challenges of maintaining the flow of accurate, independent news to the public using four case studies: The United States, Russia and two others. We will examine the notion of "press freedom" as a basic human right, opponents of that view, and global trends in the last decade that are undermining that freedom, including the contradictory role the U.S. has played in both strengthening and weakening press freedom in emerging democracies. Then, we will explore forms of censorship, the state's and private industry's role in the shaping of the media environment and the rise of disinformation/fake news.

0101	Dana Priest	Seats (Total: 19)
	M 9:45am - 12:30pm	KNI 3200

JOUR459V **Special Topics in Journalism; Media and International Affairs**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Issues of special concern and current interest. Open to all students.

Contact department for information to register for this course.

JOUR472 **Computer-Assisted Reporting**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: JOUR320 or JOUR360.

Computer and online data acquisition; analytical methods for writing and reporting news.

Students must contact Associate Dean Rafael Lorente for permission to register.

0101	Sean Mussenden	Seats (Total: 13)
	MW 10:00am - 11:50am	KNI 2105

JOUR479C **Special Topics in Data Gathering and Analysis; Understanding the Economy and Business**

(Perm req)

Credits: 3 Grading Method: Regular

Special research topics for reporting and writing.

Prerequisite: Must have complete a university statistics course. This class, designed for journalism and non-journalism undergraduates, introduces students to the major economic and business themes that dominate news coverage and explains how reporters gather and analyze data to write these stories. Topics discussed will include: income inequality, economic growth, the stock market, investing, immigration, international trade, corporate strategy, real estate, the Federal Reserve and mergers & acquisitions. This class will be helpful to students who want to understand how the economy and the stock market work, why globalization is shifting and how the biggest corporations--including technology companies--compete for market share.

0101	Constance Ford	Seats (Total: 18)
	MW 3:00pm - 4:15pm	KNI 2105

JOUR479I **Special Topics in Data Gathering and Analysis; Seeing- Media, Images & Design**

(Perm req)

Credits: 3 Grading Method: Regular

Special research topics for reporting and writing.

Prerequisite: A university statistics course. This course will introduce students to the expanding ways the "visual" is embedded in all we do and all that we are. Students will tackle challenges of why "seeing" matters and in so doing will learn visual theory. Media have become less about words and more about sight: Students will consider the ethics and impact of images on people and politics and turn those lessons into an examination of the methods of research projects where images are the data. What do we see? What don't we see? Students will analyze and deconstruct images created by others and use those insights to inform their own creation of a culminating visual journalism research project.

0101	Susan Moeller	Seats (Total: 18)
	TuTh 11:00am - 12:15pm	KNI 2105

JOUR479O **Special Topics in Data Gathering and Analysis; Understanding Audiences**

(Perm req)

Credits: 3 Grading Method: Regular

Special research topics for reporting and writing.

Must have completed a university statistics course. As journalism evolves, it may be more important than ever to understand what were once simply called "audiences"- who they are, how they consume news, and what that engagement means for them and for society. Students will learn to think critically about news audiences and contemporary issues in audience research.

0101	Ronald Yaros	Seats (Total: 18)
	TuTh 12:30pm - 1:45pm	KNI 2105

JOUR479T **Special Topics in Data Gathering and Analysis; Community-Engaged Research and Service**

(Perm req)

Credits: 3 Grading Method: Regular

Special research topics for reporting and writing.

In this course, students will research, develop and present journalism- related workshops in diverse community forums as part of an effort to foster trust and understanding between the press and the public. Students will establish relationships with community partners, conduct research using methods such as surveys, focus groups and interviews to to identify issues of concern relating to the media, and find and analyze academic literature that addresses those issues. Finally, students will produce and present an interactive program that uses Participatory Action Research (PAR) to engage participants on collaborative solutions. (Course supported by The School of Public Policy's Do Good Institute).

0101	Mary Burns	Seats (Total: 12)
	MW 10:00am - 11:15am	KNI 1109

JOUR480 **Capstone Colloquium: The Business of News**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in a major in JOUR-Philip Merrill College of Journalism; and junior standing or higher; and permission of JOUR-Philip Merrill College of Journalism.

Students will learn the basic news business concepts and examine how revenue and cost structures for media businesses are evolving in new directions. Topics include basic principles and concepts that drive media businesses in the Internet age, including revenue sources, dynamics of online advertising and subscriptions, mobile media strategies, user metrics, engaging audiences, and market dynamics.

0101	Leslie Walker **Meets August 27, 2018 - October 15, 2018** M 5:30pm - 7:20pm *Schedule adjustment is the first week of classes only.*	Seats (Total: 65) KNI 1208

JOUR501 **Fundamentals of Writing and Editing**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of JOUR-Philip Merrill College of Journalism.

Principles of news and feature writing. For graduate students with limited prior training or experience in journalism.

0101	Christine Harvey TuTh 10:00am - 11:50am	Seats (Total: 14) KNI 2107
0201	Adrianne Flynn TuTh 10:00am - 11:50am	Seats (Total: 14) KNI 2103

JOUR504 **Introduction to Multimedia Skills**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Corequisite: JOUR501; or permission of instructor. Restriction: Permission of JOUR-Philip Merrill College of Journalism. Credit only granted for: JOUR504 or JOUR628G. Formerly: JOUR628G.

Examining the basics of producing and editing digital photos, video, and audio. Topics include: framing, lighting, and other aspects of composition; sequencing, using wide, medium, and tight shots; and ethical considerations when collecting sound and visuals.

0101	Mauro Whiteman F 9:00am - 11:45am	Seats (Total: 14) KNI 2105
0201	Timothy Jacobsen F 12:00pm - 2:45pm	Seats (Total: 14) KNI 2107

JOUR601 **Theories of Journalism and Public Communication**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of JOUR-Philip Merrill College of Journalism.

Survey and evaluation of current communication theories. Attention is given to the nature and function of scientific theory, models of communication behavior, the nature of information, social functions of journalism and public communication, attitude change and persuasive communication and theories of language and meaning.

0101	Linda Steiner	Seats (Total: 10)
	W 1:00pm - 3:45pm	KNI 2109

JOUR604 **Introduction to Multimedia Skills for Graduate Certificate Programs**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of JOUR-Philip Merrill College of Journalism; and must not have completed JOUR504. Credit only granted for: JOUR 604, JOUR504, or JOUR628G. Formerly: JOUR628G. Additional information: This course is for students enrolled in graduate certificate programs in the College of Journalism.

Examine the basics of producing and editing digital photos, video and audio for news. Topics include framing, lighting and other aspects of composition; sequencing, using wide, medium and tight shots; and ethical considerations when collecting sound and visuals.

PCJ1	Madeline Marshall	Seats (Total: 15)
	Sa 8:30am - 12:15pm	KNI 1101
	Must be in MultiMedia Journalism program. For permission to enroll, contact oes@umd.edu.	

JOUR625 **Advanced Capital News Service Bureau**

(Perm req)

Credits: 6 Grading Method: Regular, Audit

Prerequisite: JOUR620; and permission of JOUR-Philip Merrill College of Journalism. Credit only granted for: JOUR625 or JOUR729. Formerly: JOUR729.

Advanced journalism training. Students report as part of College's Capital News Service program.

0101	James Carroll	Seats (Total: 10)
	Contact instructor or department for details.	

0201	Karen Denny	Seats (Total: 10)
	Contact instructor or department for details.	

JOUR627 **Urban Affairs Reporting**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: JOUR501; and permission of JOUR-Philip Merrill College of Journalism. Corequisite: JOUR620; or permission of JOUR-Philip Merrill College of Journalism. Also offered as: JOUR327. Credit only granted for: JOUR327 or JOUR627.

Students are immersed in coverage of issues affecting cities, working on a semester-long multi-platform reporting project based in Baltimore.

Students will use Baltimore as a working laboratory to report on urban issues. Course meets in Baltimore.

0101	Sandra Banisky	Seats (Total: 6)
	M 1:45pm - 4:30pm	Location: TBA

JOUR628B **Specialized Topics in News Writing and Reporting; Sports Reporting and Writing**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Advanced training and practice in writing and reporting news. Repeatabl to a maximum of six credits provided the content differs.

Course shares space with JOUR328B. This course is designed to give students a full and wide-ranging experience in all aspects of sports journalism, including multimedia, social media, the history of the craft and other specialties in reporting, investigative journalism, writing, layout, game coverage and editing.

0101	George Solomon	Seats (Total: 3)
	M 12:00pm - 2:45pm	KNI 1206

JOUR652 **Interactive Design and Development**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Corequisite: Offered to students enrolled in the journalism master's degree or certificate. Master's degree students should take JOUR 504 as a pre- or co-requisite. Certificate students are encouraged to take JOUR 604 as a co-requisite. Restriction: Must be in a major in JOUR-Philip Merrill College of Journalism. Credit only granted for: JOUR652 or JOUR352.

Conceptualize, wireframe, design and build responsive Web pages using HTML, style sheets and other coding tools; work with open source interactive tools and JavaScript libraries to create charts, timelines and maps to tell stories.

0101	Adam Marton M 1:00pm - 3:45pm	Seats (Total: 14) KNI 2103
0201	Adam Marton W 10:00am - 12:45pm	Seats (Total: 14) KNI 1101
PCJ1	Gagan Nirula Sa 1:30pm - 5:15pm *Must be in MultiMedia Journalism program. For permission to enroll, contact oes@umd.edu.*	Seats (Total: 15) KNI 2105

JOUR655 **Advanced Online News Bureau**

(Perm req)

Credits: 6 Grading Method: Regular, Audit

Prerequisite: JOUR603 or JOUR620; and (JOUR504 and JOUR652). Or permission of JOUR-Philip Merrill College of Journalism.

Advanced online journalism training. Students work as online reporters, editors and producers for a news site. Students also package copy from the print and broadcast news bureaus.

Prerequisites: JOUR 620 and 652 or equivalent. Contact the instructor to obtain permission. Course shares space with JOUR355.

0101	Adam Marton, Sean Mussenden F 9:00am - 5:00pm	Seats (Total: 4) KNI 3210
0201	Brooke Auxier, Sean Mussenden Contact instructor or department for details.	Seats (Total: 4)

JOUR662 **Broadcast News Producing**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have completed or be concurrently enrolled in JOUR661; and (JOUR603 and JOUR660). Also offered as: JOUR362. Credit only granted for: JOUR668B or JOUR662. Formerly: JOUR668B.

Learn and practice the basics of broadcast newscast producing. Design, write, edit and implement a news program.

0101	Cindy Wright	Seats (Total: 2)	
	Tu 7:15pm - 9:15pm	TWS 0117	
	W 2:00pm - 6:50pm	TWS 0117	Lab

JOUR667 **Broadcast News Bureau**

(Perm req)

Credits: 6 Grading Method: Regular, Audit

Prerequisite: JOUR503; or students who have taken courses with comparable content may contact the department. And permission of JOUR-Philip Merrill College of Journalism.

Advanced broadcast journalism training. Students report as part of the College's Capital News Service program.

Also offered as JOUR367.

0101	Susan Katcef	Seats (Total: 15)
	Contact instructor or department for details.	

JOUR668K **Topics in Broadcasting and Electronic Media; Video Innovation**

(Perm req)

Credits: 3 Grading Method: Regular

Advance research and analysis of selected topics in broadcast journalism.

Prerequisite: JOUR661 and permission of the instructor (jdavidsb@umd.edu). Students will explore the intersection between social media, video and a live broadcast by creating new and innovative ways to "broadcast" news to an audience. The class will encourage an entrepreneurial spirit and give students the opportunity to produce a show from scratch, with content aired on UMTV and online. In addition to creating television, students will support the broadcast arm of Capital News Service by managing volunteers, filling in on the studio staff and producing special projects and graphics when necessary.

0101	Joshua Davidsburg	Seats (Total: 2)
	Tu 2:45pm - 5:30pm	TWS 0222B

JOUR698 **Special Problems in Communication**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Independent study in area of the student's interest.

Contact department for information to register for this course.

JOUR698I **Special Problems in Communication; Advanced Public Affairs Reporting/Investigative Journalism**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Independent study in area of the student's interest.

Prerequisites: JOUR501. Students will learn the essentials of accountability reporting while producing a publishable, in-depth project on an issue with national significance and impact on people's lives. Substantial fieldwork, teamwork and persistence are required.

0101	Deborah Nelson	Seats (Total: 3)
	Contact instructor or department for details.	
	Contact department or instructor for details.	

JOUR702 **Journalism Law and Ethics**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in one of the following programs (Journalism - Master (Master's); Journalism Studies (Doctoral)) ; or permission of JOUR-Philip Merrill College of Journalism. Credit only granted for: JOUR400, JOUR 600, JOUR700, or JOUR 702.

An examination of the legal rights and ethical problems and constraints of mass media, including libel, privacy, copyright, monopoly and contempt.

0101	Sandra Banisky	Seats (Total: 36)
	TuTh 2:00pm - 3:15pm	KNI 1208

JOUR772 **Methods in Computer-Assisted Reporting**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Must have completed or be concurrently enrolled in JOUR501; or students who have taken courses with comparable content may contact the department.

Computer-assisted (database) journalism; obtaining, manipulating and analyzing complex government data for journalism projects.

0101	Sean Mussenden	Seats (Total: 5)
	MW 10:00am - 11:50am	KNI 2105

JOUR779Q **Seminar in Research Problems; Intermediate and Advanced Research Methods in Audience Engagement , Analytics, and Social Media**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Methods of research design and analysis in specialized areas of journalism and public communication research.

Prerequisite: JOUR775 or a comparable introductory statistics course and permission of instructor (ryaros@umd.edu). Students will collect and analyze data to investigate how analytics and human factors affect audience engagement with news. The goal is to collaborate on innovative projects for presentations and publications.

0101	Ronald Yaros F 10:00am - 12:45pm	Seats (Total: 6) KNI 3207

JOUR798 **Master's Professional Fieldwork**

(Perm req)

Credits: 2-6

Grading Method: Sat-Fail

Research for and preparation of news articles or programs for use in th media. Analysis of fieldwork experience using communication theory and research results. Fieldwork may be done independently or as an internship. Repeatable to a maximum of six credits.

Contact department for information to register for this course.

JOUR799 **Master's Thesis Research**

Credits: 1-6

Grading Method: Regular

Contact department for information to register for this course.

JOUR800 **Introduction to Doctoral Study in Journalism and Public Communication**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Credit only granted for: JOUR700 or JOUR800. Formerly: JOUR700.

Basic skills in journalism and public communication research.

0101	Kalyani Chadha W 9:00am - 11:45am	Seats (Total: 10) KNI 2109

JOUR888 **Doctoral Professional Field Work**

Credits: 3-9

Grading Method: Regular, Audit

Critical analysis of a phase of a professional field in journalism and public communication. Analysis of professional activity through personal observation. Evaluation of the purpose, process, effectiveness, and efficiency of professional activity. Recommendations for training and further research.

Contact department for information to register for this course.

JOUR889 **Doctoral Tutorial in Journalism and Public Communication**

Credits: 3-9 Grading Method: Regular, Audit

Individual research in journalism and public communication.

Contact department for information to register for this course.

JOUR898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

JOUR899 **Doctoral Dissertation Research in Journalism and Mass Communication**

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

JWST Jewish Studies Fall 2018

JWST141 **American Jewish Experience**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SH General Education: DSHS, DVUP

Also offered as: HIST106. Credit only granted for: HIST106 or JWST141.

History of the Jews in America from Colonial times to the present. Emphasis on the waves of migration from Germany and Eastern Europe; the changing nature of the American Jewish community and its participation in American social, economic, and political life.

History of the Jews in America from colonial times to the present. Emphasis on the waves of migration from Germany and Eastern Europe; the changing nature of the American Jewish community and its participation in American social, economic, and political life.

0101	Marsha Rozenblit	Seats (Total: 40)
	TuTh 12:30pm - 1:45pm	KEY 0116

JWST219A **Special Topics in Jewish Studies; The Jewish Image on Screen (Film/TV/Web)**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Also offered as FILM298C and CMLT298A. Credit only granted for JWST219A, CMLT298A, or FILM298C. The different ways that the Jewish image has been represented in cinema over time, including film, television, and the Internet will be explored. Representations will include secular and religious communities; Orthodox and Haredi Jews; LGBTQ and Jews of Color; intergenerational conflict; various countries of origin (especially Israel and the US); and more.

0101	Shalom Rosenberg	Seats (Total: 25)
	TuTh 11:00am - 12:15pm	HBK 0109

JWST219C **Special Topics in Jewish Studies; Contemporary Israel: History and Society**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

JWST219D **Special Topics in Jewish Studies; Women in Israel**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

JWST219E **Special Topics in Jewish Studies; Writing Israel**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

JWST219N **Special Topics in Jewish Studies; Special Topics in Jewish Life: Jewish Humor from Shetl to Seinfeld**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHU

We examine a broad range of Jewish Humor in literature, press, comics, television, on stage and in film. The course includes aspects of Yiddish and American Jewish studies, anthropology, ethnic studies, and more. The aim of the course is to encourage students to discuss and critically engage with each of the works included on the syllabus in an attempt to answer the following: What is Jewish humor? What is it made of and how to define it? Does it stem essentially from the experience of an ex-territorial repressed minority? What will become of it in the Israeli state? How do these questions relate to issues of ethnic humor in general? This course does not require proficiency of any foreign language or any specific historical knowledge.

0101	Adi Mahalel	Seats (Total: 30)
	TuTh 3:30pm - 4:45pm	SQH 1103

JWST233 **Why the Jews? Historical and Cultural Investigations**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, DSHU, DVUP

Restriction: Must not have completed HIST282, HIST283, JWST234, or JWST235. Also offered as: HIST287. Credit only granted for: JWST233 or HIST287.

Examines the history and culture of the Jews from the thirteenth century BCE/BC to the present through an examination of significant themes or problems (such as "religion" or "diaspora") that shape our understanding of the Jewish people. A primary focus in the course will be on texts, artifacts, and other cultural products by Jews and others that illustrate the history of the Jews help understand their cultural heritage.

For Fall 2018 - Also offered as HIST287 and RELS219D. Credit only granted for HIST287, JWST233, or RELS219D.

0101	Bernard Cooperman TuTh 2:00pm - 2:50pm F 10:00am - 10:50am	Seats (Total: 20) SQH 1120 BPS 1228	Discussion
0102	Bernard Cooperman TuTh 2:00pm - 2:50pm F 11:00am - 11:50am	Seats (Total: 20) SQH 1120 TLF 1103	Discussion
0103	Bernard Cooperman TuTh 2:00pm - 2:50pm F 1:00pm - 1:50pm	Seats (Total: 20) SQH 1120 TLF 1103	Discussion
0104	Bernard Cooperman TuTh 2:00pm - 2:50pm F 2:00pm - 2:50pm	Seats (Total: 20) SQH 1120 TLF 1103	Discussion

JWST281 **Yiddish I**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Introduction to the Yiddish language, with emphasis on speaking, reading, and writing skills. Students will also learn the history of the language, its significance to Jewish culture, its origins and basic structure.

Credit only granted for JWST281 or GERM148Y.

0101	Adi Mahalel TuTh 12:30pm - 1:45pm	Seats (Total: 20) HBK 1108	

JWST289E **New Explorations in Jewish Studies; Civil Discourse or Urban Riot: Why Cities Don't (Often) Explode**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, DVUP, SCIS

Investigation of critical and innovative responses in Jewish Studies. Although the topic will vary, the course will encourage intellectual exploration by students of fundamental problems and critical methods.

Also offered as HIST135. Credit granted for HIST135 or JWST289E. An examination of the mechanisms that promote peaceful co-existence in urban societies and a discussion of how and why city streets sometimes become violent.

0101	Bernard Cooperman TuTh 11:00am - 11:50am F 9:00am - 9:50am	Seats (Total: 20) ESJ 1224 TLF 1101	Discussion
0102	Bernard Cooperman TuTh 11:00am - 11:50am F 12:00pm - 12:50pm	Seats (Total: 20) ESJ 1224 TLF 1101	Discussion
0103	Bernard Cooperman TuTh 11:00am - 11:50am F 1:00pm - 1:50pm	Seats (Total: 20) ESJ 1224 TLF 1101	Discussion
0104	Bernard Cooperman TuTh 11:00am - 11:50am F 2:00pm - 2:50pm	Seats (Total: 20) ESJ 1224 TLF 1101	Discussion
0105	Bernard Cooperman TuTh 11:00am - 11:50am Th 5:00pm - 5:50pm *This section is restricted to members of the Carillon program.*	Seats (Total: 20) ESJ 1224 ESJ 1309	Discussion

JWST289J **Jerusalem in Antiquity: The History of Sacred Space in a Holy City**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU, DVUP, SCIS

Also offered as RELS289J. Credit will be granted for JWST289J or RELS289J. The questions of sacred space through the topic of Jerusalem are explored. The study of Jerusalem's history as a holy city reveals the many ways by which sacred space is constructed. It will also examine the development of places that continue to hold great sanctity in Judaism (the Western Wall), Christianity (the Church of the Holy Sepulchre and the Mount of Olives), and Islam (the Dome of the Rock and the Al-Aqsa Mosque on the Haram ash-Sharif).

0101	Matthew Suriano MW 11:00am - 11:50am W 1:00pm - 1:50pm	Seats (Total: 20) ASY 2309 ASY 3217	Discussion
0102	Matthew Suriano MW 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 20) ASY 2309 WDS 1130	Discussion
0103	Matthew Suriano MW 11:00am - 11:50am F 12:00pm - 12:50pm	Seats (Total: 20) ASY 2309 WDS 0104	Discussion
0104	Matthew Suriano MW 11:00am - 11:50am W 2:00pm - 2:50pm	Seats (Total: 20) ASY 2309 ASY 3207	Discussion

JWST319B **Special Topics in Jewish Studies; Arab-Israeli Relations**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics in Jewish Studies.

Contact department for information to register for this course.

JWST319E **Special Topics in Jewish Studies; Literature of the Shoah**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics in Jewish Studies.

Contact department for information to register for this course.

JWST319M **Special Topics in Jewish Studies; Beyond Black and White: Jews and Representations of Race**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHU, DVUP

Topics in Jewish Studies.

Also offered as ISRL349Z. Credit granted for ISRL349Z or JWST319M. An examination of Western constructions and representations of 'race' from medieval times to the modern rise of Zionism and the founding of Israel, with a focus on how Jews utilized the racial discourses of each period to negotiate their position within Western history.

0101	Shirelle Doughty	Seats (Total: 40)
	Class time/details on ELMs	ONLINE

JWST319N **Special Topics in Jewish Studies; The Israeli Settler Movement: The Road to One State?**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS

Topics in Jewish Studies.

Also offered as ISRL329G and HIST329G. Credit only granted for ISRL329G, HIST329G, or JWST319N. An exploration of the Israeli settler movement in the West Bank and its rise to prominence in Israeli politics in the last two decades. We will also examine how the success of the settlers influences the prospects of a two-state solution for the Israeli-Palestinian conflict, as well as the merit of claims that Israel-Palestine is already under a "one-state" reality.

0101	Shay Hazkani	Seats (Total: 30)
	MW 2:00pm - 3:15pm	HJP 2118

JWST319Q **Special Topics in Jewish Studies; The Self and the "Other" in Israeli Culture: Literature, Film, and Televsion**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Topics in Jewish Studies.

Also offered as CMLT398B, FILM329J, HEBR498Q and JWST319Q. Credit granted only for ISRL349Q, CMLT398B, FILM329J, HEBR498Q, or JWST319Q. Modern Israel includes people of many different faiths, ethnicities, languages, and cultures, but Jews of European origin have generally dominated its political and cultural climate. Through literature and film, we will explore how the sense of the "self" is constructed and how the "other" is imagined in Israeli culture. "Others" include Palestinians, Sephardim, Mizrahim, non-Zionists, women, and Eastern Europeans who do not relinquish their ties to the past, as well as other individuals who resist the collective ideologies of a nation constructing itself.

0101	Chen Edrei	Seats (Total: 40)
	TuTh 11:00am - 12:15pm	HBK 0103

JWST319Y **Special Topics in Jewish Studies; Archaeological Methods and Practice**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Topics in Jewish Studies.

Prerequisite: ANTH240, ARTH200, or CLAS180. Also offered as: ANTH305, ARTH305, CLAS305. Credit only granted for: ANTH305, ARTH305, CLAS305, or JWST319Y. A team-taught, interdisciplinary course discussing theories, methods, and ethical issues in the practice of archaeology.

0101	Matthew Suriano	Seats (Total: 30)
	MW 2:00pm - 3:15pm	WDS 1114

JWST326 **Jews and Judaism in Antiquity II: First through Seventh Centuries**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

General Education: DSHS, DSSP, DVUP

Also offered as: HIST371. Credit only granted for: HIST371 or JWST326.

Political, social, and religious history of the Jews from the destruction of the Jerusalem Temple in 70 CE to the Muslim conquests. Special attention to the political transformations in Judaism under late Roman Christianity, and the rise of the Rabbinic movement.

For Fall 2018 - Also offered as HIST371 and RELS319D. Credit only granted for HIST371, JWST326, or RELS319D.

0101	Hayim Lapin	Seats (Total: 30)
	MW 2:00pm - 3:15pm	KEY 0100

JWST369A **Special Topics in Study Abroad III; The Holocaust: 20th Century Jewish Thought**

Credits: 1-6

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

JWST386 **Experiential Learning in Jewish Studies**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Permission of ARHU-Meyerhoff Program & Center for Jewish Studies. Restriction: Junior standing or higher.

The Jewish Studies Program's internship program. Pre-professional experience in research, analysis, and writing related to Jewish Studies in a variety of work settings.

Students will meet with instructor for one hour per week while completing their internship.

0101	Scott Lasensky	Seats (Total: 15)
	Tu 5:00pm - 6:00pm Contact instructor or department for details.	SQH 4116
	Meeting time is subject to change to accommodate student course and internship schedules.	

JWST409K **Research Seminar in Jewish Studies; Jews, Politics, and the State**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

A capstone course for Jewish Studies. Guides students through advanced source material and subject matter, research skills, and presentation techniques. A substantive paper based on independent research and analysis is one expected outcome.

0101	Marsha Rozenblit	Seats (Total: 4)
	Tu 3:30pm - 5:20pm Contact instructor or department for details.	KEY 2115D

JWST409V **Research Seminar in Jewish Studies; Dead Sea Scrolls in Gendered Perspective**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

A capstone course for Jewish Studies. Guides students through advanced source material and subject matter, research skills, and presentation techniques. A substantive paper based on independent research and analysis is one expected outcome.

Also offered as WMST498T. Credit granted for JWST409V or WMST498T. The Dead Sea Scrolls, one of the great archaeological finds of the twentieth century, provide evidence for an ancient Jewish movement that arose in opposition to mainstream Judaism during the Hellenistic and early Roman periods. While awaiting a messiah and a violent endtimes judgment, this movement developed unusual religious practices, possibly including celibacy and certainly including strict rules about marriage and sexual behavior. How do sex, gender, and sexuality relate to religious identity? How do gender and power interrelate? Attention to the Dead Sea Scrolls in gendered perspective will allow us to answer these questions and to better understand an especially fascinating moment in ancient Jewish history.

0101	Maxine Grossman	Seats (Total: 20)
	Th 4:00pm - 6:30pm	SQH 1111

JWST468C **Readings in the Hebrew Bible; Selected Readings in Biblical, Post Biblical, and Rabbinic Hebrew**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Readings in the Hebrew text of the Bible. Emphasis in close reading, grammar analysis, and modern interpretations of the Bible. Language of instruction English; all texts in Hebrew.

Prerequisite: HEBR313; or permission of instructor. Repeatable to 9 credits if content differs. Formerly: HEBR441 and HEBR442. Readings in the Hebrew text of the Bible. Emphasis in close reading, grammar analysis, and modern interpretations of the Bible. Language of instruction English; all texts in Hebrew. Texts surveyed will include samples of Classical Hebrew including Bible, Dead Sea Scrolls, and Rabbinic Literature.

0101	Matthew Suriano	Seats (Total: 15)
	MW 5:30pm - 6:45pm	SQH 4116

JWST499 **Independent Study in Jewish Studies; Independent Study in Jewish Studies**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: permission of department.

Contact department for information to register for this course.

JWST600 **General Seminar in Jewish Studies**

Credits: 3 Grading Method: Regular

Introduce graduate students to the fields, problems, and basic methods of research in the comtemporary practice of Jewish Studies. Consideration of chronological and historiographical problems, questions of the development of Jewish thought and literature and Jewish religious and cultural history in four rough chronological periods: Biblical Israel, Judaism in Antiquity, Judaism in the Middle Ages and Early Modern Period, and Modern Judaism.

Contact department for information to register for this course.

JWST619 **Directed Readings in Jewish Studies**

(Perm req)

Credits: 3 Grading Method: Regular

Independent Study in Jewish Studies. Readings and papers.

Contact department for information to register for this course.

JWST648 **Readings in Jewish History**

(Perm req)

Credits: 3 Grading Method: Regular

Focus on the central issues in Jewish history as well as the key historiographical debates on those issues.

Prerequisite: permission of department. Repeatable to 9 credits if content differs. Focus on the central issues in Jewish history as well as the key historiographical debates on those issues.

Contact department for information to register for this course.

JWST658 **Readings in Jewish Thought and Culture**

(Perm req)

Credits: 3 Grading Method: Regular

Examines key issues in the development of Jewish thought and culture.

Prerequisite: permission of department. Repeatable to 9 credits if content differs. Examines key issues in the development of Jewish thought and culture.

Contact department for information to register for this course.

JWST678 **Readings in Jewish Literature**

(Perm req)

Credits: 3 Grading Method: Regular

Examines selected themes or literatures in the development of Jewish literary traditions.

Prerequisite: permission of department. Repeatable to 9 credits if content differs. Examines selected themes on literatures in the development of Jewish literary traditions.

Contact department for information to register for this course.

JWST678D **Readings in Jewish Literature; Dead Sea Scrolls in Gendered Perspective**

Credits: 3 Grading Method: Regular

Examines selected themes or literatures in the development of Jewish literary traditions.

0101	Maxine Grossman	Seats (Total: 5)
	Th 4:00pm - 6:30pm	SQH 1111

JWST799 **Masters Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular, Sat-Fail

Research and Writing the Masters Thesis in Jewish Studies.

Prerequisite: permission of department.

Contact department for information to register for this course.

KNES Kinesiology Fall 2018

KNES100N **Physical Education Activities: Coed; Basketball (Beginning)**

Credits: 1

Grading Method: Regular, Pass-Fail

Attendance is required of all students beginning the first day of class. Schedule adjustment is the first week of classes only. Students must pay a $40 instructional materials fee.

0001	Andrew Ginsberg **Meets August 27, 2018 - October 12, 2018** TuTh 8:00am - 10:00am *Meets first 7 weeks.*	Seats (Total: 32) ERC 0135	Lab
0002	Andrew Ginsberg **Meets October 15, 2018 - December 10, 2018** TuTh 8:00am - 10:00am *Meets second 7 weeks.*	Seats (Total: 32) ERC 0135	Lab

KNES100O Physical Education Activities: Coed; Basketball (Intermediate)

Credits: 2

Grading Method: Regular, Pass-Fail

Attendance is required of all students beginning the first day of class. Students must pay a $40 instructional materials fee.

0001	Timothy Henkel MW 12:00pm - 2:00pm	Seats (Total: 32) ERC 0135	Lab
0003	Timothy Henkel MW 10:00am - 12:00pm	Seats (Total: 32) ERC 0135	Lab
0004	Mike Hamberger TuTh 12:00pm - 2:00pm *This section is for KNES Majors only.*	Seats (Total: 32) ERC 0135	Lab

KNES131O Physical Education Activities: Coed; Jogging (Intermediate)

Credits: 2

Grading Method: Regular, Pass-Fail

Students must pay a $40 instructional materials fee. Attendance is required of all students beginning the first day of class.

0001	Timothy Henkel TuTh 2:00pm - 4:00pm *This section is for KNES Majors only.*	Seats (Total: 40) ARM 1122	Lab

KNES131V **Physical Education Activities: Coed; Jogging (BEGINNING)**

Credits: 2 Grading Method: Regular, Pass-Fail

Attendance is required of all students beginning the first day of class. Students must pay a $40 instructional materials fee.

0001	Timothy Henkel MW 2:00pm - 4:00pm	Seats (Total: 40) ARM 1122	Lab
0002	Sarah Houchens TuTh 12:00pm - 2:00pm	Seats (Total: 40) ARM 1122	Lab

KNES134O **Physical Education Activities: Coed; Bowling (Intermediate)**

Credits: 1 Grading Method: Regular, Pass-Fail

Attendance is required the first day of class. Students must pay a $40 instructional materials fee. Bowling shoes are required (can be rented). Schedule adjustment is the first week of classes only.

0001	Timothy Henkel **Meets August 27, 2018 - October 12, 2018** TuTh 8:00am - 10:00am *This section is for KNES Majors only.*	Seats (Total: 40) SSU B0106C	Lab
0002	Timothy Henkel **Meets October 15, 2018 - December 10, 2018** TuTh 8:00am - 10:00am *This section is for KNES Majors only.*	Seats (Total: 40) SSU B0106C	Lab

KNES137N **Physical Education Activities: Coed; Golf (Beginning)**

Credits: 1 Grading Method: Regular, Pass-Fail

Attendance is required the first day of class. Schedule adjustment is the first week of class only. Students must pay a $40 instructional materials fee directly to the golf course.

0001	Jeff Maynor	Seats (Total: 25)	
	Meets August 27, 2018 - October 12, 2018		
	MW 10:00am - 12:00pm	GLF 1102	Lab
	This section is for KNES Majors Only.		

KNES137O **Physical Education Activities: Coed; Golf (Intermediate)**

Credits: 1 Grading Method: Regular, Pass-Fail

Attendance is required the first day of class. Schedule adjustment is the first week of class only. Students must pay a $40.00 instructional materials fee directly to golf course.

0001	Jeff Maynor	Seats (Total: 25)	
	Meets August 27, 2018 - October 12, 2018		
	MW 12:00pm - 2:00pm	GLF 1102	Lab

KNES140A **Physical Education Activities: Coed; General Gymnastics (Beginning)**

Credits: 1 Grading Method: Regular, Pass-Fail

Schedule Adjustment is the first week of classes only. Attendance is required the first day of class. Meets the second seven weeks only. Students must pay a $40 instructional materials fee.

0002	Joshua Montfort	Seats (Total: 24)	
	Meets October 15, 2018 - December 10, 2018		
	MW 10:00am - 12:00pm	SPH 1120	Lab

KNES140V **Physical Education Activities: Coed; Tumbling and Balancing (Beginning)**

Credits: 1 Grading Method: Regular, Pass-Fail

Schedule adjustment is the first week of classes only. Attendance is required beginning the first day of class. Meets the first seven weeks only. Students must pay a $40 instructional materials fee.

0001	Joshua Montfort **Meets August 27, 2018 - October 12, 2018** MW 10:00am - 12:00pm	Seats (Total: 24) SPH 1120	Lab

KNES144Q **Physical Education Activities: Coed; Martial Arts, Karate (Beginning)**

Credits: 2

Grading Method: Regular, Pass-Fail

Attendance is required of all students beginning the first day of class. Students must pay a $40 instructional materials fee.

0001	Kenneth Klotz MW 10:00am - 12:00pm *This section is for KNES Majors Only.*	Seats (Total: 32) SPH 0107	Lab

KNES144T **Physical Education Activities: Coed; Self-Defense (Beginning)**

Credits: 2

Grading Method: Regular, Pass-Fail

Attendance is required of all students beginning the first day of class. Students must pay a $40 instructional materials fee.

0001	Kenneth Klotz MW 8:00am - 10:00am	Seats (Total: 35) SPH 0107	Lab

KNES152N **Physical Education Activities: Coed; Soccer (Beginning)**

Credits: 1

Grading Method: Regular, Pass-Fail

Schedule Adjustment Period is the first week of classes only. Students are required to attend classes beginning first day of classes. Students must pay a $40 instructional materials fee.

0001	Emma Shaw **Meets August 27, 2018 - October 12, 2018** MW 12:00pm - 2:00pm *This section is for KNES Majors Only.*	Seats (Total: 24) ARM 1122	Lab

KNES152O **Physical Education Activities: Coed; Soccer (Intermediate)**

Credits: 1

Grading Method: Regular, Pass-Fail

Attendence is required beginning the first day of class. Schedule adjustment is the first week of classes only. Students must pay a $40 instructional materials fee.

0002	Emma Shaw **Meets October 15, 2018 - December 10, 2018** MW 12:00pm - 2:00pm	Seats (Total: 24) ARM 1122	Lab

KNES154N **Physical Education Activities: Coed; Swimming (Beginning)**

Credits: 1

Grading Method: Regular, Pass-Fail

Beginning Swimming is strictly for Non-swimmers. Attendence is required on the first day of class. Students must pay a $40 instructional materials fee.

0001	Natalie Taylor MW 12:00pm - 1:15pm	Seats (Total: 22) ERC B0120	Lab

KNES154O **Physical Education Activities: Coed; Swimming (Intermediate)**

Credits: 1

Grading Method: Regular, Pass-Fail

Attendance on the first day of class is required of all students. Students must pay a $40 instructional materials fee.

0001	Natalie Taylor TuTh 1:00pm - 2:15pm *This section is for KNES Majors only.*	Seats (Total: 22) ERC B0120	Lab

KNES154P **Physical Education Activities: Coed; Swimming (Advanced)**

Credits: 2

Grading Method: Regular, Pass-Fail

Attendance on the first day of class is required of all students. Students must pay a $40 instructional materials fee.

0001	Brent Flynn MW 9:00am - 11:00am	Seats (Total: 22) ERC B0120	Lab

KNES154W **Physical Education Activities: Coed; Swimming/Lifeguard Training**

Credits: 2 Grading Method: Regular, Pass-Fail

Prerequisite: Advanced swimming ability. Attendance on the first day of class is required of all students. Students must qualify to stay in class by passing a swim test on the first day of class. Students must pay a $40 instructional materials fee.

0001	John Felts, Ronald Willoughby MW 10:00am - 12:00pm	Seats (Total: 22) ERC B0120	Lab

KNES155N **Physical Education Activities: Coed; Tennis (Beginning)**

Credits: 1 Grading Method: Regular, Pass-Fail

Attendance is required of all students on the first day of class. Students must pay a $40 instructional materials fee.

0001	Wontak Kim **Meets August 27, 2018 - October 12, 2018** MW 10:00am - 12:00pm *This section is for KNES Majors Only.*	Seats (Total: 32) ERC 0135	Lab
0002	Wontak Kim **Meets August 27, 2018 - October 12, 2018** MW 12:00pm - 2:00pm *This section is for KNES Majors Only.*	Seats (Total: 32) ERC 0135	Lab
0003	Wontak Kim **Meets August 27, 2018 - October 12, 2018** MW 2:00pm - 4:00pm	Seats (Total: 32) ERC 0135	Lab

KNES157N **Physical Education Activities: Coed; Weight Training (Beginning)**

Credits: 1 Grading Method: Regular, Pass-Fail

Attendance is required of all students beginning the first day of class. Students must pay a $40 instructional materials fee.

0001	Jennifer Lee MW 10:00am - 11:15am	Seats (Total: 28) SPH 0103	Lab
0002	Terrel Everette MW 1:00pm - 2:15pm	Seats (Total: 28) SPH 0103	Lab
0003	Terrel Everette MW 2:00pm - 3:15pm	Seats (Total: 28) SPH 0103	Lab
0004	Jennifer Lee TuTh 9:30am - 10:45am	Seats (Total: 28) SPH 0103	Lab
0005	Laura Rush TuTh 2:00pm - 3:15pm	Seats (Total: 28) SPH 0103	
FC01	Harry Li TuTh 3:00pm - 4:15pm *Restricted to students in Freshman Connection.*	Seats (Total: 28) SPH 0103	Lab

KNES157O **Physical Education Activities: Coed; Weight Training (Intermediate)**

Credits: 1 Grading Method: Regular, Pass-Fail

Attendance on the first day of class is required of all students. Students must pay a $40 instructional materials fee.

0001	Tori Thompson MW 11:00am - 12:15pm *This section is for KNES Majors only.*	Seats (Total: 28) SPH 0103	Lab
0002	Terrel Everette MW 12:00pm - 1:15pm *This section is for KNES Majors only.*	Seats (Total: 28) SPH 0103	Lab
0003	Timothy Henkel TuTh 12:00pm - 1:15pm *This sections is for KNES Majors only.*	Seats (Total: 28) SPH 0103	Lab

KNES160N **Physical Education Activities: Coed; Volleyball (Beginning)**

Credits: 1

Grading Method: Regular, Pass-Fail

Schedule Adjustment Period is first week of class only. Attendance is required of all students on the first day of class. Students must pay a $40 instructional materials fee.

0001	Wontak Kim	Seats (Total: 32)	
	Meets October 15, 2018 - December 10, 2018		
	MW 10:00am - 12:00pm	SPH 2101	Lab
	This section is for KNES Majors Only.		

KNES160O **Physical Education Activities: Coed; Volleyball (Intermediate)**

Credits: 1

Grading Method: Regular, Pass-Fail

Schedule Adjustment Period is the first week of class only. All students are required to attend the first day of class. Students must pay a $40 instructional materials fee.

0001	Gina Garcia	Seats (Total: 32)	
	Meets October 15, 2018 - December 10, 2018		
	MW 12:00pm - 2:00pm	SPH 2101	Lab
	This section is for KNES Majors only.		
0002	Andrea Romeo	Seats (Total: 32)	
	Meets October 15, 2018 - December 10, 2018		
	TuTh 2:00pm - 4:00pm	SPH 2101	Lab
	This section is for KNES Majors only.		

KNES161F **Physical Education Activities: Coed; Yoga for Fitness (Beginning)**

Credits: 1

Grading Method: Regular, Pass-Fail

Attendance on the first day of class is required. Students must pay a $40 instructional materials fee.

0001	Laura Rush	Seats (Total: 36)	
	TuTh 3:00pm - 4:15pm	SPH 0107	Lab
	This section is for KNES Majors only.		

KNES161T **Physical Education Activities: Coed; Yoga**

Credits: 1 Grading Method: Regular, Pass-Fail

Contact department for information to register for this course.

KNES200 **Introduction to Kinesiology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in Kinesiology program; and freshman standing. Or must not be in Kinesiology program; and must have less than 60 credits. Credit only granted for: KNES200 or KNES289M.

An overview of kinesiology, the interdisciplinary study of physical activity. Examines human motor behavior and its cultural forms such as sport from the physiological, psychological, sociological, historical, philosophical, and biomechanical perspectives.

0101	Andrew Ginsberg TuTh 11:00am - 12:15pm	Seats (Total: 80) SPH 1312

KNES201 **Kinesiological Principles of Physical Activity**

Credits: 1 Grading Method: Regular, Pass-Fail

Corequisite: Any physical activity course, e.g., KNES 100-190; or permission of SPHL-Kinesiology department. Restriction: Must be in a major in SPHL-School of Public Health. Credit only granted for: KNES200 or KNES201.

An introduction to Kinesiology, the study of human movement, through the experience of learning a specific motor skill or being engaged in physical activity. Emphasis on the theories and knowledge underlying the learning and performance of all motor and sport skills.

KNES Majors Only.

0101	Andrea Romeo **Meets August 27, 2018 - October 13, 2018** M 11:00am - 11:50am Class time/details on ELMs	Seats (Total: 25) SPH 0308 ONLINE
0102	Kyle Pietro **Meets October 15, 2018 - December 10, 2018** M 11:00am - 11:50am Class time/details on ELMs	Seats (Total: 25) SPH 0308 ONLINE

0103	Kyle Pietro **Meets August 27, 2018 - October 13, 2018** W 11:00am - 11:50am Class time/details on ELMs	Seats (Total: 25) SPH 0303 ONLINE
0105	Brandon Lee **Meets August 27, 2018 - October 13, 2018** M 2:00pm - 2:50pm Class time/details on ELMs	Seats (Total: 25) SPH 0307 ONLINE
0106	Brandon Lee **Meets October 15, 2018 - December 10, 2018** M 2:00pm - 2:50pm Class time/details on ELMs	Seats (Total: 25) SPH 0307 ONLINE
0109	Andrew Ginsberg **Meets August 27, 2018 - October 13, 2018** M 3:00pm - 3:50pm Class time/details on ELMs	Seats (Total: 25) SPH 0307 ONLINE
0110	Andrew Ginsberg **Meets October 15, 2018 - December 10, 2018** M 3:00pm - 3:50pm Class time/details on ELMs	Seats (Total: 25) SPH 0307 ONLINE

KNES214 **Science and Methods of Personal Fitness Instruction**

Credits: 3 Grading Method: Regular General Education: DSSP

Credit only granted for: KNES214 or KNES210 and KNES211, or KNES210 and KNES212, or KNES289N. Formerly: KNES210/KNES211, KNES210/KNES212, and KNES289N.

Basic concepts of human anatomy, exercise physiology, applied kinesiology, nutrition and the physiology of exercise training. Includes the CORE knowledge required for the American Council on Exercise (ACE) Personal Trainer certification.

0101	Rosemary Lindle Class time/details on ELMs M 8:00am - 10:00am	Seats (Total: 25) ONLINE SPH 0305	Lab
0102	Rosemary Lindle Class time/details on ELMs W 8:00am - 10:00am	Seats (Total: 25) ONLINE SPH 0303	Lab

KNES222 **Gambling in the New Millennium: Poker, The Preakness, Point-spreads, Powerball and Public Policy**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, SCIS

Recommended: ENGL101 and COMM107.

Is gambling in the public interest? Students will critically examine the various implications of "what it means to gamble" through investigations of various gambling forms, different sectors of the gambling industry and the related economics, along with consumer behavior, sport, public policy and public health in this context.

0101	Stephen McDaniel MW 2:00pm - 2:50pm F 9:00am - 9:50am	Seats (Total: 20) PLS 1140 SPH 1303	Discussion
0102	Stephen McDaniel MW 2:00pm - 2:50pm F 10:00am - 10:50am	Seats (Total: 20) PLS 1140 SPH 1303	Discussion
0103	Stephen McDaniel MW 2:00pm - 2:50pm F 11:00am - 11:50am	Seats (Total: 20) PLS 1140 SPH 1303	Discussion
0104	Stephen McDaniel MW 2:00pm - 2:50pm F 12:00pm - 12:50pm	Seats (Total: 20) PLS 1140 SPH 1303	Discussion

KNES260 **Science of Physical Activity and Cardiovascular Health**

Credits: 3 | Grading Method: Regular, Pass-Fail | CORE: LS | General Education: DSNS

Course details (1) the public health importance of and the processes underlying cardiovascular disease, (2) the risk factors for cardiovascular disease and the methods whereby they were identified, and (3) the principles of the scientific evidence supporting the use of physical activity to prevent cardiovascular disease.

0101	James Hagberg MW 12:00pm - 12:50pm M 9:00am - 9:50am	Seats (Total: 20) ATL 2324 SPH 0225	Discussion
0103	James Hagberg MW 12:00pm - 12:50pm M 11:00am - 11:50am	Seats (Total: 20) ATL 2324 SPH 0225	Discussion

KNES282 **Basic Care and Prevention of Athletic Injuries**

Credits: 3 Grading Method: Regular, Pass-Fail

Restriction: Must be in a major within the SPHL-Kinesiology department. Credit only granted for: KNES282 or KNES381.

Theoretical and practical foundations of the prevention, treatment and rehabilitation of athletically related injuries. Topics include: physical conditioning, preventive taping, recognition of injuries, first aid and CPR.

KNES Majors only.

0101	Joanne Klossner TuTh 2:00pm - 3:15pm *This section is for KNES Majors Only.*	Seats (Total: 40) SPH 0308	

KNES287 **Sport and American Society**

Credits: 3 Grading Method: Regular, Pass-Fail CORE: SB, D General Education: DSHS, DVUP

Sport will be related to such social problems as delinquency, segregation, collective behavior, and leisure; to social processes such as socialization, stratification, mobility, and social control; and to those familiar social institutions the family, the school, the church, the military, the economy, the polity, and the mass media.

0101	David Andrews MW 2:00pm - 2:50pm M 8:00am - 8:50am	Seats (Total: 22) SPH 1312 SPH 0303	Discussion

0102	David Andrews MW 2:00pm - 2:50pm M 9:00am - 9:50am	Seats (Total: 22) SPH 1312 SPH 0303	Discussion
0103	David Andrews MW 2:00pm - 2:50pm M 10:00am - 10:50am	Seats (Total: 22) SPH 1312 SPH 0303	Discussion
0104	David Andrews MW 2:00pm - 2:50pm W 8:00am - 8:50am	Seats (Total: 22) SPH 1312 SPH 0305	Discussion
0105	David Andrews MW 2:00pm - 2:50pm W 9:00am - 9:50am	Seats (Total: 22) SPH 1312 SPH 0305	Discussion
0106	David Andrews MW 2:00pm - 2:50pm W 10:00am - 10:50am	Seats (Total: 22) SPH 1312 SPH 0305	Discussion
0107	David Andrews MW 2:00pm - 2:50pm M 11:00am - 11:50am	Seats (Total: 22) SPH 1312 SPH 0305	Discussion
0108	David Andrews MW 2:00pm - 2:50pm W 11:00am - 11:50am	Seats (Total: 22) SPH 1312 SPH 0305	Discussion
FC01	Shaun Edmonds MW 6:00pm - 7:15pm *Restricted to students in Freshman Connection.*	Seats (Total: 40) SPH 1301	

KNES289 **Topical Investigations**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail

Independent study by an individual student or a group of students in special areas of knowledge not covered by regularly scheduled courses.

Prerequisite: permission of department.

Contact department for information to register for this course.

KNES289L **Topical Investigations; Golf for Business and Life**

Credits: 3 | Grading Method: Regular, Pass-Fail

Independent study by an individual student or a group of students in special areas of knowledge not covered by regularly scheduled courses.

Students must pay a $50.00 Facility fee. This course gives students the oppurtunity to learn the basics of the golf swing, etiquette, and most importantly, how to use golf as a business tool regardless of their chosen careers. Kinesiology majors may use this course to fulfill 2 credits of physical activity at intermediate level.

0101	Jeff Maynor	Seats (Total: 24)
	TuTh 3:30pm - 5:30pm	SPH 0303

KNES289R **Topical Investigations; Hoop Dreams: Black Masculinity and Sport**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, SCIS

Independent study by an individual student or a group of students in special areas of knowledge not covered by regularly scheduled courses.

0101	Ronald Mower	Seats (Total: 50)
	MW 4:00pm - 5:15pm	ATL 2428

KNES289W **Topical Investigations; The Cybernetic Human**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSNS, SCIS

Independent study by an individual student or a group of students in special areas of knowledge not covered by regularly scheduled courses.

Can the profound and rapid technological advances experienced in the 21st century change what it means to be human or the nature of humanity? Emergent technologies, new materials, increased computer power,engineering innovations, and groundbreaking work in the sciences of cognition and action provide myriad opportunities for repairing and enhancing the human body and brain. Examines the ethical, social, and technological implications of an increasing synergism of technology and the body in sports and the arts, at work or home, rehabilitating the body and the brain, and society at large.

0101	Tim Kiemel	Seats (Total: 20)	
	MF 2:00pm - 2:50pm W 12:00pm - 12:50pm	CCC 1100 SPH 0305	Discussion

0102	Tim Kiemel MF 2:00pm - 2:50pm W 10:00am - 10:50am	Seats (Total: 20) CCC 1100 SPH 0303	Discussion
0103	Tim Kiemel MF 2:00pm - 2:50pm W 1:00pm - 1:50pm	Seats (Total: 20) CCC 1100 SPH 0303	Discussion
0104	Tim Kiemel MF 2:00pm - 2:50pm W 2:00pm - 2:50pm	Seats (Total: 20) CCC 1100 SPH 0303	Discussion

KNES293 **History of Sport in America**

Credits: 3 | Grading Method: Regular, Pass-Fail | CORE: SH | General Education: DSHS

The growth and development of sport in America. The transformation of sport within the perspective of American history, including class sport, professionalization, amateurism, and international involvement.

Restricted to Majors or non-majors with less than or equal to 45 credits.

0101	Michael Friedman MW 10:00am - 10:50am W 1:00pm - 1:50pm	Seats (Total: 22) SPH 1312 SPH 1302	Discussion
0102	Michael Friedman MW 10:00am - 10:50am M 1:00pm - 1:50pm	Seats (Total: 22) SPH 1312 SPH 1302	Discussion
0103	Michael Friedman MW 10:00am - 10:50am M 2:00pm - 2:50pm	Seats (Total: 22) SPH 1312 SPH 1302	Discussion
0104	Michael Friedman MW 10:00am - 10:50am M 3:00pm - 3:50pm	Seats (Total: 22) SPH 1312 SPH 1302	Discussion
0105	Michael Friedman MW 10:00am - 10:50am W 12:00pm - 12:50pm	Seats (Total: 22) SPH 1312 SPH 0303	Discussion

0106	Michael Friedman MW 10:00am - 10:50am M 12:00pm - 12:50pm	Seats (Total: 22) SPH 1312 SPH 0303	 Discussion
0107	Michael Friedman MW 10:00am - 10:50am W 2:00pm - 2:50pm	Seats (Total: 22) SPH 1312 SPH 1302	 Discussion
0108	Michael Friedman MW 10:00am - 10:50am W 3:00pm - 3:50pm	Seats (Total: 22) SPH 1312 SPH 1302	 Discussion
FC01	Brandon Wallace TuTh 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 40) CHM 0119	

KNES300 **Biomechanics of Human Motion**

Credits: 4 Grading Method: Regular, Pass-Fail

Prerequisite: Minimum grade of C- in BSCI201. And 1 course with a minimum grade of C- from (MATH112, MATH113, MATH115); or (must have completed one General Education: Fundamental Studies-Math course with a minimum grade of C-; and must have math eligibility of MATH140 or higher). Recommended: PHYS121. Restriction: Must be in a major within SPHL-Kinesiology department.

The study of human movement and the physical and physiological principles upon which it depends. Body mechanics, posture, motor efficiency, sports, the performance of a typical individual and the influence of growth and development upon motor performance.

Students must pay a $50 lab fee.

0101	Ross Miller MW 3:00pm - 4:15pm Tu 8:00am - 10:00am	Seats (Total: 18) SPH 1312 SPH 0223	 Lab
0102	Ross Miller MW 3:00pm - 4:15pm Tu 10:00am - 12:00pm	Seats (Total: 18) SPH 1312 SPH 0223	 Lab

0103	Ross Miller MW 3:00pm - 4:15pm Tu 12:00pm - 2:00pm	Seats (Total: 18) SPH 1312 SPH 0223	 Lab
0104	Ross Miller MW 3:00pm - 4:15pm Tu 2:00pm - 4:00pm	Seats (Total: 18) SPH 1312 SPH 0223	 Lab
0105	Ross Miller MW 3:00pm - 4:15pm Th 8:00am - 10:00am	Seats (Total: 18) SPH 1312 SPH 0223	 Lab
0106	Ross Miller MW 3:00pm - 4:15pm Th 10:00am - 12:00pm	Seats (Total: 18) SPH 1312 SPH 0223	 Lab
0107	Ross Miller MW 3:00pm - 4:15pm Th 12:00pm - 2:00pm	Seats (Total: 18) SPH 1312 SPH 0223	 Lab
0108	Ross Miller MW 3:00pm - 4:15pm Th 2:00pm - 4:00pm	Seats (Total: 18) SPH 1312 SPH 0223	 Lab
0109	Ross Miller MW 3:00pm - 4:15pm M 6:00am - 7:50am	Seats (Total: 18) SPH 1312 SPH 0223	 Lab

KNES300H **Biomechanics of Human Motion**

(Perm req)

Credits: 4 Grading Method: Regular, Pass-Fail

Prerequisite: Minimum grade of C- in BSCI201. And 1 course with a minimum grade of C- from (MATH112, MATH113, MATH115); or (must have completed one General Education: Fundamental Studies-Math course with a minimum grade of C-; and must have math eligibility of MATH140 or higher). Recommended: PHYS121. Restriction: Must be in a major within SPHL-Kinesiology department.

The study of human movement and the physical and physiological principles upon which it depends. Body mechanics, posture, motor efficiency, sports, the performance of a typical individual and the influence of growth and development upon motor performance.

This section is restricted to students who have been admitted in the Kinesiology Honors program. Students must pay a $50 lab fee.

0101	Ross Miller MW 3:00pm - 4:15pm Contact instructor or department for details.	Seats (Total: 4) SPH 1312	

KNES320 **Physiological Basis of Physical Activity and Human Health**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in BSCI201 and BSCI202. Restriction: Must be in Public Health Science program. Credit only granted for: KNES360 or KNES320.

A study of the responses and chronic adaptations to physical activity and exercise, with particular emphasis on the interaction between human health and physical activity. The laboratory component of course will focus on the assessment of physical activity and measurement of physiological adaptations to exercise. Students are expected to gain an understanding and appreciation for the benefits of physical activity and exercise in the context of public health.

Students must pay a $50 lab fee.

0101	Steven Prior TuTh 9:30am - 10:45am M 12:00pm - 1:50pm	Seats (Total: 20) ESJ 2208 SPH 0225	 Lab
0102	Steven Prior TuTh 9:30am - 10:45am M 2:00pm - 3:50pm	Seats (Total: 20) ESJ 2208 SPH 0225	 Lab
0103	Steven Prior TuTh 9:30am - 10:45am W 12:00pm - 1:50pm	Seats (Total: 20) ESJ 2208 SPH 0225	 Lab
0104	Steven Prior TuTh 9:30am - 10:45am W 2:00pm - 3:50pm	Seats (Total: 20) ESJ 2208 SPH 0225	 Lab
0105	Steven Prior TuTh 9:30am - 10:45am F 10:00am - 11:50am	Seats (Total: 20) ESJ 2208 SPH 0225	 Lab

0106	Steven Prior TuTh 9:30am - 10:45am F 12:00pm - 1:50pm	Seats (Total: 20) ESJ 2208 SPH 0225	 Lab
0107	Steven Prior TuTh 9:30am - 10:45am W 10:00am - 11:50am	Seats (Total: 20) ESJ 2208 SPH 0225	 Lab
SG91	Kathleen Dondero M 5:00pm - 7:30pm Th 9:00am - 10:50am	Seats (Total: 15) BLD2 1032 BLD1 203A	 Lab
SG92	Kathleen Dondero M 5:00pm - 7:30pm Th 11:00am - 12:50pm	Seats (Total: 15) BLD2 1032 BLD1 203A	 Lab

KNES332 **Exercise Testing and Prescription for the Fitness Professional**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in KNES360. Restriction: Must be in a major within SPHL-Kinesiology department. Credit only granted for: KNES332 or KNES389G. Formerly: KNES389G.

Practical applications of exercise physiology and psychology to target fitness instruction for the general adult population Includes discussion of certification standards and professional development as well as evaluation of program safety and current trends.

0101	Jo Zimmerman WF 9:00am - 10:50am	Seats (Total: 25) SPH 0308

KNES332H **Exercise Testing and Prescription for the Fitness Professional**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in KNES360. Restriction: Must be in a major within SPHL-Kinesiology department. Credit only granted for: KNES332 or KNES389G. Formerly: KNES389G.

Practical applications of exercise physiology and psychology to target fitness instruction for the general adult population Includes discussion of certification standards and professional development as well as evaluation of program safety and current trends.

0101	Jo Zimmerman	Seats (Total: 2)
	WF 9:00am - 10:50am	SPH 0308

KNES333 **Motor Development and Fitness for Individuals with Disabilities**

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in KNES287 and KNES370. Restriction: Must be in a major within the SPHL-Kinesiology department; and must have earned a minimum of 45 credits.

Implications of Federal and State regulations for planning and implementing motor development and physical fitness programs for individuals with disabilities. Evaluation strategies for assessing motor performance and fitness levels in educational programs for these individuals.

Students are required to choose a placement for a service-learning experience involving direct work with children who have disabilities. Students may choose from a list of local schools (listed in the syllabus. that have special education programs; or they may complete this requirement at the Children's Developmental Clinic held on campus in the SPH (School of Public Health) building every Saturday 8:30am-12:30pm.

0101	Dennis Vacante	Seats (Total: 32)
	Th 7:00pm - 9:30pm	SPH 0308

KNES335 **Swimming Pool Management**

Credits: 2 Grading Method: Regular, Pass-Fail

Analysis of the position of the swimming pool manager. The systematic treatment of swimming pool water; swimming pool first aid; and laws pertaining to swimming pool operation. Qualifies the student for a pool operator's license in most Maryland counties.

This class does NOT fulfill a KNES Options Requirement.

0101	John Felts	Seats (Total: 35)
	TuTh 9:30am - 10:30am	ERC B0132

KNES350 **The Psychology of Sports**

Credits: 3 Grading Method: Regular, Pass-Fail General Education: DSHS

An exploration of personality factors, including but not limited to motivation, aggression and emotion, as they affect sports participation and motor skill performance.

0101	Elizabeth Brown TuTh 2:00pm - 3:15pm *This section is for KNES Majors Only.*	Seats (Total: 60) SPH 1301
0201	Evan Brody TuTh 8:00am - 9:15am	Seats (Total: 90) ATL 2400

KNES350H **The Psychology of Sports**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHS

An exploration of personality factors, including but not limited to motivation, aggression and emotion, as they affect sports participation and motor skill performance.

This section is restricted to students who have been admitted in the Kinesiology Honors program.

0101	Elizabeth Brown TuTh 2:00pm - 3:15pm	Seats (Total: 3) SPH 1301
0201	Evan Brody TuTh 8:00am - 9:15am	Seats (Total: 3) ATL 2400

KNES355 **Sport Management**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: KNES287. Restriction: Junior standing or higher; and must be in a major within the SPHL-Kinesiology department. Credit only granted for: KNES355 or KNES498M.

Application of concepts and issues related to management principles and business concerns across various sections of the sport industry. Principles pertaining to the management of sport organizations.

0101	Stephen McDaniel TuTh 2:00pm - 3:15pm	Seats (Total: 32) SPH 0307

KNES355H **Sport Management**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: KNES287. Restriction: Junior standing or higher; and must be in a major within the SPHL-Kinesiology department. Credit only granted for: KNES355 or KNES498M.

Application of concepts and issues related to management principles and business concerns across various sections of the sport industry. Principles pertaining to the management of sport organizations.

0101	Stephen McDaniel TuTh 2:00pm - 3:15pm	Seats (Total: 3) SPH 0307	

KNES360 **Physiology of Exercise**

Credits: 4 Grading Method: Regular, Pass-Fail

Prerequisite: Minimum grade of C- in BSCI202 and BSCI201; or permission of SPHL-Kinesiology department. Restriction: Must be in one of the following programs (Kinesiology; Public Health Science).

A study of the physiology of exercise, including concepts of work, muscular contraction, energy transformation, metabolism, oxygen debt, and nutrition and athletic performance. Emphasis on cardiovascular and respiratory function in relation to physical activity and training.

Students must pay a $50 lab fee.

0101	Marc Rogers MWF 12:00pm - 12:50pm Tu 8:00am - 10:00am *Restricted to students in the Kinesiology major (code:08351).*	Seats (Total: 18) SPH 1312 SPH 0225	Lab
0102	Marc Rogers MWF 12:00pm - 12:50pm Tu 10:00am - 12:00pm *Restricted to students in the Kinesiology major (code:08351).*	Seats (Total: 18) SPH 1312 SPH 0225	Lab
0103	Marc Rogers MWF 12:00pm - 12:50pm Tu 12:00pm - 2:00pm *Restricted to students in the Kinesiology major (code:08351).*	Seats (Total: 18) SPH 1312 SPH 0225	Lab
0104	Marc Rogers MWF 12:00pm - 12:50pm Tu 2:00pm - 4:00pm *Restricted to students in the Kinesiology major (code:08351).*	Seats (Total: 18) SPH 1312 SPH 0225	Lab
0105	Marc Rogers MWF 12:00pm - 12:50pm Th 8:00am - 10:00am	Seats (Total: 18) SPH 1312 SPH 0225	Lab

0106	Marc Rogers MWF 12:00pm - 12:50pm Th 10:00am - 12:00pm *Restricted to students in the Kinesiology major (code:08351).*	Seats (Total: 18) SPH 1312 SPH 0225	Lab
0107	Marc Rogers MWF 12:00pm - 12:50pm Th 12:00pm - 2:00pm *Restricted to students in the Kinesiology major (code:08351).*	Seats (Total: 18) SPH 1312 SPH 0225	Lab
0108	Marc Rogers MWF 12:00pm - 12:50pm Th 2:00pm - 4:00pm *Restricted to students in the Kinesiology major (code:08351).*	Seats (Total: 18) SPH 1312 SPH 0225	Lab

KNES360H **Physiology of Exercise**

(Perm req)

Credits: 4 Grading Method: Regular, Pass-Fail

Prerequisite: Minimum grade of C- in BSCI202 and BSCI201; or permission of SPHL-Kinesiology department. Restriction: Must be in one of the following programs (Kinesiology; Public Health Science).

A study of the physiology of exercise, including concepts of work, muscular contraction, energy transformation, metabolism, oxygen debt, and nutrition and athletic performance. Emphasis on cardiovascular and respiratory function in relation to physical activity and training.

This section is restricted to students who have been admitted in the Kinesiology Honors program. Students must pay a $50 lab fee.

0101	Marc Rogers MWF 12:00pm - 12:50pm Contact instructor or department for details.	Seats (Total: 4) SPH 1312	

KNES370 **Motor Development**

Credits: 3 Grading Method: Regular, Pass-Fail

Restriction: Must be in a major within SPHL-Kinesiology department.

Motor development across the life span. The developmental sequences of motor skills from birth to old age; neuromaturation of neuromuscular system; analysis of the underlying mechanisms of motor skill development; and correlates of motor development.

0101	Tim Kiemel MW 1:00pm - 1:50pm M 9:00am - 9:50am	Seats (Total: 18) SPH 1312 SPH 0223	Lab
0102	Tim Kiemel MW 1:00pm - 1:50pm M 10:00am - 10:50am	Seats (Total: 18) SPH 1312 SPH 0223	Lab
0103	Tim Kiemel MW 1:00pm - 1:50pm M 11:00am - 11:50am	Seats (Total: 18) SPH 1312 SPH 0223	Lab
0104	Tim Kiemel MW 1:00pm - 1:50pm M 12:00pm - 12:50pm	Seats (Total: 18) SPH 1312 SPH 0223	Lab
0105	Tim Kiemel MW 1:00pm - 1:50pm W 9:00am - 9:50am *Restricted to KNES majors (08351).*	Seats (Total: 18) SPH 1312 SPH 0223	Lab
0106	Tim Kiemel MW 1:00pm - 1:50pm W 10:00am - 10:50am *Restricted to KNES majors (08351).*	Seats (Total: 18) SPH 1312 SPH 0223	Lab
0107	Tim Kiemel MW 1:00pm - 1:50pm W 11:00am - 11:50am *Restricted to KNES majors (08351).*	Seats (Total: 18) SPH 1312 SPH 0223	Lab
0108	Tim Kiemel MW 1:00pm - 1:50pm W 12:00pm - 12:50pm *Restricted to KNES majors (08351).*	Seats (Total: 18) SPH 1312 SPH 0223	Lab

KNES370H **Motor Development**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail

Restriction: Must be in a major within SPHL-Kinesiology department.

Motor development across the life span. The developmental sequences of motor skills from birth to old age; neuromaturation of neuromuscular system; analysis of the underlying mechanisms of motor skill development; and correlates of motor development.

This section is restricted to students who have been admitted in the Kinesiology Honors program.

0101	Tim Kiemel	Seats (Total: 3)	
	MW 1:00pm - 1:50pm TBA	SPH 1312 SPH 0223	Lab

KNES385 **Motor Control and Learning**

Credits: 3 Grading Method: Regular, Pass-Fail

Restriction: Must be in a major within SPHL-Kinesiology department.

Physiological and cognitive bases for motor control and their applications to the acquisition of movement skills and understanding of movement disorders. Topics include: neurophysiology, motor control theory, sensory/perceptual processes, perception-action coupling, information processing, memory, attention, individual differences, motivation, practice organization and role of feedback.

0101	Rodolphe Gentili	Seats (Total: 18)	
	MW 11:00am - 11:50am F 8:00am - 8:50am	SPH 1312 SPH 0223	Lab
0102	Rodolphe Gentili	Seats (Total: 18)	
	MW 11:00am - 11:50am F 9:00am - 9:50am	SPH 1312 SPH 0223	Lab
0103	Rodolphe Gentili	Seats (Total: 18)	
	MW 11:00am - 11:50am F 10:00am - 10:50am	SPH 1312 SPH 0223	Lab
0104	Rodolphe Gentili	Seats (Total: 18)	
	MW 11:00am - 11:50am F 11:00am - 11:50am	SPH 1312 SPH 0223	Lab
0105	Rodolphe Gentili	Seats (Total: 18)	
	MW 11:00am - 11:50am F 12:00pm - 12:50pm	SPH 1312 SPH 0223	Lab

0106	Rodolphe Gentili MW 11:00am - 11:50am F 1:00pm - 1:50pm	Seats (Total: 18) SPH 1312 SPH 0223	Lab
0107	Rodolphe Gentili MW 11:00am - 11:50am M 1:00pm - 1:50pm	Seats (Total: 18) SPH 1312 Location: TBA	Lab
0108	Rodolphe Gentili MW 11:00am - 11:50am M 2:00pm - 2:50pm	Seats (Total: 18) SPH 1312 SPH 0223	Lab

KNES385H **Motor Control and Learning**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail

Restriction: Must be in a major within SPHL-Kinesiology department.

Physiological and cognitive bases for motor control and their applications to the acquisition of movement skills and understanding of movement disorders. Topics include: neurophysiology, motor control theory, sensory/perceptual processes, perception-action coupling, information processing, memory, attention, individual differences, motivation, practice organization and role of feedback.

This section is restricted to students who have been admitted in the Kinesiology Honors program.

0101	Rodolphe Gentili MW 11:00am - 11:50am Contact instructor or department for details.	Seats (Total: 8) SPH 1312

KNES386 **Experiential Learning**

Credits: 3 Grading Method: Regular, Pass-Fail

Prerequisite: Must have completed three KNES core classes. Restriction: Junior standing or higher; and must be in a major within SPHL-Kinesiology department.

Explore and analyze concepts and procedures related to a quality service-learning experience to include planning, implementing, and evaluating a service-learning project.

Click here for more course information.

0101	Marvin Scott TuTh 12:30pm - 1:45pm	Seats (Total: 25) SPH 0303

KNES389 **Topical Investigations**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail

Independent study by an individual student or a group of students in special areas of knowledge not covered by regularly scheduled courses.

Prerequisite: permission of instructor and department. This class does NOT fulfill a KNES Options Requirement.

Contact department for information to register for this course.

KNES389E **Topical Investigations; Children's Development Clinic**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Independent study by an individual student or a group of students in special areas of knowledge not covered by regularly scheduled courses.

A service/learning course designed for students, teachers and individuals interested in working with children who have special needs. Students will work one-on-one with an assigned child in the areas of motor development, reading, language, and social skills. Students will be required to complete fingerprinting and background checks (at no cost to the students). This class does NOT fulfill a KNES Options Requirement.

0101	Dennis Vacante	Seats (Total: 30)
	Sa 8:30am - 12:30pm	SPH 2101

KNES389I **Topical Investigations; Sport Economics**

Credits: 3 Grading Method: Regular, Pass-Fail

Independent study by an individual student or a group of students in special areas of knowledge not covered by regularly scheduled courses.

Prerequisite: KNES287 with a C- or better. Examines sport as a diverse cultural form through which physical activity is organized, regulated, and consumed within contemporary society. Evaluation of the complex interactions between sport culture economic institutions and forces.

0101	Michael Friedman	Seats (Total: 32)
	MW 3:30pm - 4:45pm	ESJ B0320

KNES389K **Topical Investigations; Kinesiology Internship**

(Perm req) Credits: 3 Grading Method: Regular

Independent study by an individual student or a group of students in special areas of knowledge not covered by regularly scheduled courses.

Prerequisite: permission of instructor and department.

Contact department for information to register for this course.

KNES400 **The Foundations of Public Health in Kinesiology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in KNES287. Restriction: Senior standing or higher; and must be in a major within the SPHL-Kinesiology department. Credit only granted for: KNES400 or KNES498A. Formerly: KNES498A.

An investigation of the role of physical activity and inactivity in relation to health and well-being through a public health perspective. Past and current perspectives on health promotion, health education, and social policies and approaches will be examined for various populations.

0101	Shannon Jette MW 11:00am - 11:50am W 12:00pm - 12:50pm	Seats (Total: 18) PHY 1410 SPH 0301	Discussion
0102	Shannon Jette MW 11:00am - 11:50am W 1:00pm - 1:50pm	Seats (Total: 18) PHY 1410 SPH 0305	Discussion
0103	Shannon Jette MW 11:00am - 11:50am W 2:00pm - 2:50pm	Seats (Total: 18) PHY 1410 SPH 0305	Discussion
0104	Shannon Jette MW 11:00am - 11:50am W 3:00pm - 3:50pm	Seats (Total: 18) PHY 1410 SPH 0303	Discussion
0105	Shannon Jette MW 11:00am - 11:50am F 12:00pm - 12:50pm	Seats (Total: 18) PHY 1410 SPH 0301	Discussion
0106	Shannon Jette MW 11:00am - 11:50am F 1:00pm - 1:50pm	Seats (Total: 18) PHY 1410 SPH 0303	Discussion

0107	Shannon Jette MW 11:00am - 11:50am F 2:00pm - 2:50pm	Seats (Total: 18) PHY 1410 SPH 0303	Discussion
0108	Shannon Jette MW 11:00am - 11:50am F 3:00pm - 3:50pm	Seats (Total: 18) PHY 1410 SPH 0303	Discussion

KNES400H **The Foundations of Public Health in Kinesiology**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in KNES287. Restriction: Senior standing or higher; and must be in a major within the SPHL-Kinesiology department. Credit only granted for: KNES400 or KNES498A. Formerly: KNES498A.

An investigation of the role of physical activity and inactivity in relation to health and well-being through a public health perspective. Past and current perspectives on health promotion, health education, and social policies and approaches will be examined for various populations.

0101	Shannon Jette MW 11:00am - 11:50am Contact instructor or department for details.	Seats (Total: 5) PHY 1410	

KNES402 **Biomechanics of Sport**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: KNES300.

Mechanical determinants influencing sport techniques. A quantitative, scientific basis for sport analysis with emphasis on the application to numerous sport activities. Evaluation and quantification of the filmed performance of athletes.

0101	Ross Miller MWF 12:00pm - 12:50pm	Seats (Total: 32) SPH 0308	

KNES402H **Biomechanics of Sport**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: KNES300.

Mechanical determinants influencing sport techniques. A quantitative, scientific basis for sport analysis with emphasis on the application to numerous sport activities. Evaluation and quantification of the filmed performance of athletes.

0101	Ross Miller	Seats (Total: 3)
	MWF 12:00pm - 12:50pm	SPH 0308

KNES440 **Psychology of Athletic Performance**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: KNES350. Restriction: Junior standing or higher. Credit only granted for: KNES498P, KNES689Z, or KNES440.

Examines the psychological factors, mechanisms, and processes in athletic performance. Utilizes a social psychological approach to focus on the study and review of individual performance in both the interpersonal and social context.

0101	Seppo Iso-Ahola	Seats (Total: 30)
	M 4:00pm - 6:35pm	SPH 1302

KNES440H **Psychology of Athletic Performance**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: KNES350. Restriction: Junior standing or higher. Credit only granted for: KNES498P, KNES689Z, or KNES440.

Examines the psychological factors, mechanisms, and processes in athletic performance. Utilizes a social psychological approach to focus on the study and review of individual performance in both the interpersonal and social context.

This section is restricted to students who have been admitted in the Kinesiology Honors program.

0101	Seppo Iso-Ahola	Seats (Total: 3)
	M 4:00pm - 6:35pm	SPH 1302

KNES451 **Children and Sport: A Psychosocial Perspective**

Credits: 3 Grading Method: Regular, Pass-Fail

Prerequisite: KNES350. Restriction: Junior standing or higher; and must be in a major within SPHL-Kinesiology department.

Examination of youth sports from a psychosocial perspective, including the impact of highly structured sports on young athletes and the complex social network of coaches, parents and peers.

0101	Elizabeth Brown	Seats (Total: 31)
	TuTh 11:00am - 12:15pm	SPH 0305

KNES451H **Children and Sport: A Psychosocial Perspective**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail

Prerequisite: KNES350. Restriction: Junior standing or higher; and must be in a major within SPHL-Kinesiology department.

Examination of youth sports from a psychosocial perspective, including the impact of highly structured sports on young athletes and the complex social network of coaches, parents and peers.

0101	Elizabeth Brown	Seats (Total: 1)
	TuTh 11:00am - 12:15pm	SPH 0305

KNES457 **Managing Youth Programs: Educational, Fitness and Sport**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: KNES370 and KNES287. Restriction: Junior standing or higher. Credit only granted for: KNES457 or KNES498Y.

An examination of the basic functions involved in managing physical education, fitness, and youth sports programs. Focus on leadership skills, organizational management, and techniques for applying learned skills in a variety of organizational settings that serve the nation's youth.

0101	Jay Goldstein	Seats (Total: 35)
	TuTh 11:00am - 12:15pm	TYD 2110

KNES460 **Physiology of Aging and the Impact of Physical Activity**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: KNES360. Credit only granted for: KNES498F or KNES460. Formerly: KNES498F.

Biology of the aging process in healthy individuals and those with chronic disease, the effects of acute exercise and exercise training on the physiological decline that occurs in humans, and the role that regular physical activity plays on enhancing the quality of life and activities of daily living in individuals.

0101	Marc Rogers TuTh 12:30pm - 1:45pm	Seats (Total: 32) SPH 0305

KNES460H **Physiology of Aging and the Impact of Physical Activity**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: KNES360. Credit only granted for: KNES498F or KNES460. Formerly: KNES498F.

Biology of the aging process in healthy individuals and those with chronic disease, the effects of acute exercise and exercise training on the physiological decline that occurs in humans, and the role that regular physical activity plays on enhancing the quality of life and activities of daily living in individuals.

0101	Marc Rogers TuTh 12:30pm - 1:45pm	Seats (Total: 2) SPH 0305

KNES461 **Exercise and Body Composition**

Credits: 3 Grading Method: Regular, Pass-Fail

Prerequisite: KNES360.

An in-depth overview on how body composition is measured, what it is composed of, and the physiological and biochemical signals that change it. The effects of acute and chronic exercise on food storage, breakdown, and use as an energy source, is the major focus. This information is applied to important issues in public health and athletic performance.

0101	Ben Hurley TuTh 9:30am - 10:45am	Seats (Total: 31) SPH 0305

KNES461H **Exercise and Body Composition**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail

Prerequisite: KNES360.

An in-depth overview on how body composition is measured, what it is composed of, and the physiological and biochemical signals that change it. The effects of acute and chronic exercise on food storage, breakdown, and use as an energy source, is the major focus. This information is applied to important issues in public health and athletic performance.

This section is restricted to students who have been admitted in the Kinesiology Honors program.

0101	Ben Hurley TuTh 9:30am - 10:45am	Seats (Total: 3) SPH 0305

KNES464 **Exercise Metabolism: Role in Health and Disease**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI202, KNES360, and BSCI201. Credit only granted for: KNES464 or KNES498L.

Examines the role of metabolism in kinesiology, especially as it relate to physical inactivity, health and disease. Includes bioenergetics, substrate utilization, cell signaling, and metabolic gene expression and their impact on chronic health conditions or disease.

Prerequisite: KNES360 with a C- or better

0101	Sarah Glancy TuTh 9:30am - 10:45am	Seats (Total: 30) ATL 2428

KNES464H **Exercise Metabolism: Role in Health and Disease**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI202, KNES360, and BSCI201. Credit only granted for: KNES464 or KNES498L.

Examines the role of metabolism in kinesiology, especially as it relate to physical inactivity, health and disease. Includes bioenergetics, substrate utilization, cell signaling, and metabolic gene expression and their impact on chronic health conditions or disease.

Prerequisite: KNES360 with a C- or better

0101	Sarah Glancy TuTh 9:30am - 10:45am	Seats (Total: 3) ATL 2428

KNES465 **Physical Activity and Disease Prevention and Treatment**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: KNES360. Credit only granted for: KNES465 or KNES498A.

Critically examines the scientific evidence that supports the use of physical activity to prevent and treat age-related diseases, including cardiovascular disease, diabetes, abnormal lipoprotein-lipid levels, hypertension, obesity, osteoporosis and cancer.

0101	Sushant Ranadive TuTh 8:00am - 9:15am	Seats (Total: 32) SPH 0302

KNES465H **Physical Activity and Disease Prevention and Treatment**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: KNES360. Credit only granted for: KNES465 or KNES498A.

Critically examines the scientific evidence that supports the use of physical activity to prevent and treat age-related diseases, including cardiovascular disease, diabetes, abnormal lipoprotein-lipid levels, hypertension, obesity, osteoporosis and cancer.

0101	Sushant Ranadive TuTh 8:00am - 9:15am	Seats (Total: 3) SPH 0302

KNES476 **Honors Thesis Proposal**

(Perm req)

Credits: 3 Grading Method: Regular

Corequisite: KNES478. Restriction: Must be a KNES Honors student; and senior standing. Credit only granted for: KNES476 or KNES498R.

Development of honors thesis proposal based on preliminary research and literature review. Presentation of formal proposal to the thesis committee and fellow honors students.

0101	Tim Kiemel F 10:00am - 10:50am Contact instructor or department for details.	Seats (Total: 10) SPH 0301

KNES478 **Honors Seminar**

(Perm req)

Credits: 1 Grading Method: Regular

Guided discussion of research topics of current interest.

Continuing KNES Honors Students must enroll in KNES478 every semester they are in the program.

0101	Tim Kiemel F 11:00am - 11:50am	Seats (Total: 20) SPH 0301

KNES483 **Sport Marketing and Media**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: KNES287. Restriction: Junior standing or higher; and must be in a major within SPHL-Kinesiology department.

Industry practices in sport marketing and media. Marketing strategies and consumer behavior in different sport contexts. Critical examination of selected social and economic issues related to the buying and selling of sport.

0101	Stephen McDaniel TuTh 11:00am - 12:15pm	Seats (Total: 28) SPH 0303

KNES483H **Sport Marketing and Media**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: KNES287. Restriction: Junior standing or higher; and must be in a major within SPHL-Kinesiology department.

Industry practices in sport marketing and media. Marketing strategies and consumer behavior in different sport contexts. Critical examination of selected social and economic issues related to the buying and selling of sport.

0101	Stephen McDaniel TuTh 11:00am - 12:15pm	Seats (Total: 3) SPH 0303

KNES484 **Sporting Hollywood**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: KNES293 and KNES287. Restriction: Junior standing or higher. Credit only granted for: KNES484 and KNES498N.

Popular representations of sport within the film media related to wider social discourses on bodies and the politics of various categories of subjectivity (gender, sexual, racial, class and national).

0101	Shaun Edmonds M 10:00am - 12:30pm	Seats (Total: 35) SPH 1303

KNES497 **Kinesiology Senior Seminar**

(Perm req)

Credits: 3 Grading Method: Regular CORE: CS General Education: DSSP

Prerequisite: A professional writing course with a minimum grade of C-; and must have completed 6 KNES core courses and 2 KNES option courses, all with a C- or higher; and must have completed STAT100 with a C- or better. Restriction: Senior standing or higher; and must be in Kinesiology program; and permission of department.

Discussions of contemporary issues vital to the discipline, critiques of research in the student's area/areas of special interest, completion of a major project where the student will be asked to demonstrate the ability to carry out investigative processes in problem solving and critical writing under faculty direction.

Click here for more information.

0103	James Hagberg Th 8:00am - 10:30am *Physical Activity and the Obesity and Diabetes Epidemic*	Seats (Total: 20) SPH 0307
0104	Shaun Edmonds W 10:00am - 12:30pm *Physical Activity for Everyone: Qualitative and Quantitative Approaches*	Seats (Total: 20) SPH 1303
0106	Joanne Klossner TuTh 12:30pm - 1:45pm *Hot Topics in Sports Medicine.*	Seats (Total: 20) SPH 0307
0110	Evan Brody Tu 4:00pm - 6:45pm *Applied Sport and Exercise Psychology for Practitioners.*	Seats (Total: 18) SPH 0225
0111	Tim Kiemel W 4:00pm - 6:30pm *Normal and Impaired Sensorimotor Control: Standing Balance, Walking, and Other Activities of Daily Living.*	Seats (Total: 10) SPH 0307

KNES498 **Special Topics in Kinesiology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics of special interest in areas not covered by regularly scheduled courses.

This class does NOT fulfill a KNES Options Requirement.

Contact department for information to register for this course.

KNES498C **Special Topics in Kinesiology; Exercise and Brain Health**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics of special interest in areas not covered by regularly scheduled courses.

Examines the evidence for exercise to affect brain function and brain health in children, in adults, and in old age. Covers the adaptations toacute and chronic exercise within brain networks related to emotion, stress reactivity, memory, and executive function, and the effectiveness of physical activity and exercise as treatments for depression, anxiety disorders, and cognitive impairment.Prerequisite: KNES350.

0101	J Carson Smith	Seats (Total: 31)
	TuTh 2:00pm - 3:15pm	SPH 0302

KNES498J **Special Topics in Kinesiology; Equity & Diversity: Contemporary Issues in Physical Activity Participation and Health**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics of special interest in areas not covered by regularly scheduled courses.

0101	Shaun Edmonds	Seats (Total: 35)
	MW 3:30pm - 4:45pm	SPH 1301

KNES498T **Special Topics in Kinesiology; Principles and Applications of Exercise Rehabilitation**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics of special interest in areas not covered by regularly scheduled courses.

Prerequisites: BSCI202 and KNES300/KNES300H.

0101	Larry Plotkin	Seats (Total: 34)
	TuTh 8:00am - 9:15am	SPH 0305

KNES498W **Special Topics in Kinesiology; Prosthetics for Limb Amputations**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics of special interest in areas not covered by regularly scheduled courses.

Prerequisite: KNES300. Introduction to the science of prosthetics and the artificial devices that are designed, developed and fit to replace the missing body part or parts lost through trauma, disease or congenital conditions.

0101	Douglas Collier	Seats (Total: 34)
	Tu 12:30pm - 3:00pm	EGR 2154

KNES600 **Kinesiology in Public Health**

Credits: 3 Grading Method: Regular, Audit

A broad introduction to public health within the context of the discipline of kinesiology, focusing on furthering the understanding of the ways kinesiology contributes toward achieving the goals of public health.

0101	Jennifer Roberts	Seats (Total: 15)
	Tu 4:00pm - 6:45pm	SPH 2334

KNES609 **Research Issues in Kinesiology**

(Perm req)

Credits: 1 Grading Method: Regular

Issues, methodologies, and critical analyses of current research in Kinesiology.

Contact department for information to register for this course.

KNES614 **Cultural Studies and Physical Culture**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: KNES614 or KNES689P. Formerly: KNES689P.

Discusses the political commitments, constituents, and complexities of cultural studies, and their relevance for furthering the understanding of physical culture and the project of physical cultural studies.

0101	David Andrews	Seats (Total: 15)
	M 4:00pm - 6:30pm	SPH 2334

KNES615 **The Body, Culture, and Physical Activity**

Credits: 3 Grading Method: Regular, Audit

Critically examines the social constitution and embodied experience of various empirical fields of physical culture, including sport, health, movement, exercise, recreation dance, and daily living related activities.

0101	Shannon Jette	Seats (Total: 10)
	W 4:00pm - 6:30pm	SPH 2334

KNES618 **Current Readings in Exercise and Applied Physiology**

Credits: 1 Grading Method: Regular, Audit

Student-led presentations of contemporary literature in the areas of genetics, exercise science, fitness and health. Emphasis on papers describing new research findings, novel techniques, innovative methods, and emerging issues.

0101	James Hagberg	Seats (Total: 12)
	F 1:00pm - 1:50pm	SPH 2334

KNES660 **Psychology of Athletic Performances**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: KNES350. Credit only granted for: KNES660 or KNES689Z. Formerly: KNES689Z.

Psychological factors, mechanisms, and processes in athletic performance. The basic approach is social psychological, according to which the focus is on individual performance in the interpersonal athletic context. Intrapersonal and interpersonal factors and their effects on athletic performance. Psychology of peak performance, choking, and errors of mental control. Analysis of the general principles and types of mental training.

0101	Seppo Iso-Ahola	Seats (Total: 30)
	M 4:00pm - 6:35pm	SPH 1302

KNES689 **Special Problems in Kinesiology**

(Perm req)

Credits: 1-6 Grading Method: Regular

Master or doctoral candidates who desire to pursue special research problems under the direction of their advisor may register for 1-6 hours of credit under this number.

Contact department for information to register for this course.

KNES689A **Special Problems in Kinesiology; Assessing Learning in Physical Education**

Credits: 3 Grading Method: Regular, Audit

Master or doctoral candidates who desire to pursue special research problems under the direction of their advisor may register for 1-6 hours of credit under this number.

A study of the principles and techniques of educational measurement used to evaluate student learning in the cognitive, psychomotor and affective domains within the context of teaching effectiveness. Students will develop research proposals for implementation during the second half of their teaching internship.

Contact department for information to register for this course.

KNES689T **Special Problems in Kinesiology; Teaching Internship**

(Perm req)

Credits: 1-6 Grading Method: Regular, Audit

Master or doctoral candidates who desire to pursue special research problems under the direction of their advisor may register for 1-6 hours of credit under this number.

Outreach Secondary MCERT- KNES. Departmental permission required. Students are required to pay a course fee; refer to program materials for details.

Contact department for information to register for this course.

KNES689X **Special Problems in Kinesiology; Exercise and Brain Health**

Credits: 3 Grading Method: Regular, Audit

Master or doctoral candidates who desire to pursue special research problems under the direction of their advisor may register for 1-6 hours of credit under this number.

0101	J Carson Smith	Seats (Total: 5)
	TuTh 2:00pm - 3:15pm	SPH 0302

KNES691 **Muscular Aspects of Exercise Physiology**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: KNES360. Recommended: BSCI422.

Skeletal muscle structure and function including muscle development, excitation-contraction coupling, muscle fiber types and fatigue, muscle biochemistry, gene expression, muscle damage and regeneration. The effects of aging and exercise training on skeletal muscle.

0101	Sarah Glancy	Seats (Total: 15)
	Th 4:00pm - 6:30pm	SPH 0225

KNES785 **Internship in Physical Activity and Public Health**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: EPIB610, EPIB650, HLSA601, HLTH665, KNES600, KNES601, and MIEH600. Recommended: KNES602. Credit only granted for: KNES778 or KNES785.

The internship is a time-limited, supervised period of public/community health activities carried out in a health or allied health organization involved with physical activity. Students gain practical experience in areas such as program planning and implementation, program evaluation, public policy analysis, research, and management.

0101	Jennifer Roberts	Seats (Total: 3)
	Contact instructor or department for details.	

KNES786 **Capstone Project in Physical Activity and Public Health**

Credits: 3 Grading Method: Regular

Prerequisite: KNES600, KNES601, and KNES602.

The culminating experience in which the student applies knowledge and skills learned in the MPH program to conduct independent work on a physical activity problem under the supervision of a faculty advisor.

0101	Shannon Jette, Andrea Romeo	Seats (Total: 5)
	Contact instructor or department for details.	

KNES789 **Advanced Projects in Kinesiology**

Credits: 1-3 Grading Method: Regular

Advanced projects examining current problems and trends in kinesiology.

Contact department for information to register for this course.

KNES789A **Advanced Projects in Kinesiology; Advancedf Neuromechanics**

Credits: 3 Grading Method: Regular

Advanced projects examining current problems and trends in kinesiology.

0101	Jae Kun Shim	Seats (Total: 15)
	Th 4:00pm - 6:45pm	SPH 0223

KNES789C **Advanced Projects in Kinesiology; Computational Motor Control and Learning: Engineering the Mind**

Credits: 3 Grading Method: Regular

Advanced projects examining current problems and trends in kinesiology.

0101	Rodolphe Gentili W 1:00pm - 3:45pm	Seats (Total: 15) SPH 0223

KNES799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

KNES898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

KNES899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

KORA Korean Fall 2018

KORA101 **Elementary Korean I**

Credits: 3 Grading Method: Regular

Prerequisite: Must have appropriate Foreign Language Placement Test (FLPT) score; and permission of ARHU-School of Languages, Literatures, and Cultures department. Restriction: Must be a non-Heritage student with no background in Korean.

Introduction to the Korean language. Primary emphasis on oral skills, but Hangul, the Korean alphabet, will also be introduced.

0101	Seong Minne Koh MWF 10:00am - 10:50am	Seats (Total: 15) JMZ 0125
0201	Younghi Ramsey, So-Hye Park MWF 2:00pm - 2:50pm	Seats (Total: 15) JMZ 2123
0301	Seong Minne Koh MWF 11:00am - 11:50am	Seats (Total: 15) JMZ 1117

KORA201 **Intermediate Korean I**

Credits: 3 Grading Method: Regular CORE: HO

Prerequisite: KORA102; or permission of instructor.

An intermediate-level course designed for non-Heritage students. It begins the second year of instruction in the University's two-track Korean Program.

0101	Younghi Ramsey, So-Hye Park MWF 11:00am - 11:50am	Seats (Total: 15) JMZ 2207
0201	Younghi Ramsey, So-Hye Park MWF 1:00pm - 1:50pm	Seats (Total: 15) JMZ 2123

KORA398A **Special Topics in Korean Studies; Language and Society of the Two Koreas**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Study of particular aspect of Korean language, literature, and/or culture. Topic and language of instruction to be announced when course is offered.

This is a Big Ten Academic Alliance Course-Share course. The instructor, Prof. Hangte Cho, is at the University of Minnesota. UMD students enroll and attend the class at UMD. This course offers an introduction and contrastive analysis of the language and society of the two Koreas; the Republic of Korea (better known as South Korea) and the Democratic Peoples Republic of Korea (better known as North Korea) with a heavier emphasis on North Korea. This course will introduce the growing divide of the past 70 years between North and South Korea in the areas of language, society, and culture. Mass media portrays the controversial political and human rights issues of North Korea but generally lacks in coverage of linguistic issues and everyday life there. The course content will be based on various scholarly articles and book chapters, current web-based resources, news reports, North Korean propaganda, and documentaries. This course has no pre-requisites and does not expect students to have a background in political science, Korean history, or sociology, nor a background on North Korea.

0101	Instructor: TBA MW 3:00pm - 4:15pm	Seats (Total: 12) JMZ 3118

KORA398K **Special Topics in Korean Studies; Korean Language in Culture and Society**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Study of particular aspect of Korean language, literature, and/or culture. Topic and language of instruction to be announced when course is offered.

This is a Big Ten Academic Alliance Course-Share course. The instructor, Prof. Sang-Seok Yoon, is at the University of Iowa. UMD students enroll and attend the class at UMD. The purpose of this course is to introduce students to the various sociolinguistic phenomena in contemporary Korean society. The course will address such topics as general linguistic characteristics of Korean,Confucianism and honorifics, language changes, gender differences, generation differences and Korean contacts with Chinese, Japanese and English etc. Especially, the discussions will focus on various linguistic phenomena found in contemporary pop culture such as Korean movies, dramas, K- popsand commercials. Korean society has been experiencing rapid changes,especially after the Second World War, and naturally, contemporary Korean language reflects those changes. While discussing the sociolinguistic characteristics of Korean, this course will also introduce various cultural aspects and brief history of Korea.

0101	Instructor: TBA	Seats (Total: 12)
	TuTh 10:30am - 11:45am	JMZ 3202

KORA499 **Independent Study Korean**

(Perm req)

Credits: 1-3 Grading Method: Regular

Independent study under faculty supervision.

Contact department for information to register for this course.

LARC Landscape Architecture Fall 2018

LARC141 **Design Fundamentals Studio**

(Perm req)

Credits: 4 Grading Method: Regular

Prerequisite: LARC140. Recommended: Concurrently enrolled in LARC263. Restriction: Permission of AGNR-Plant Science & Landscape Architecture department; and sophomore standing or higher; and must be in Landscape Architecture program.

Fundamentals of basic design focusing on creative problem solving associated with landscape architecture.

0101	Ann Anderson	Seats (Total: 15)	
	MW 2:00pm - 3:15pm	PLS 2152	
	MW 3:30pm - 4:50pm	PLS 2152	Lab

LARC151 **Urban Agriculture: Designing and Assessing Edible Landscapes**

Credits: 3 Grading Method: Regular General Education: DSSP, SCIS

Students will examine the growing development of urban agriculture and edible landscapes. Urban agriculture has seen a recent growth and interest in cities across the globe. From Paris to New York, from Baltimore to Detroit, urban agriculture is an emerging land use to address a variety of needs. Redevelopment, food deserts, community engagement and environmental justice are just some of the issues and topics that are connected to the recent growth of urban agriculture. This course will take a critical examination of urban agriculture's contribution to the food system, its input and outputs in the urban landscape, and the planning and design of urban agriculture and edible landscapes.

0101	Allison Tjaden MW 11:00am - 11:50am M 1:00pm - 1:50pm	Seats (Total: 20) ESJ 2208 PLS 1164	Discussion
0102	Allison Tjaden MW 11:00am - 11:50am M 1:00pm - 1:50pm	Seats (Total: 20) ESJ 2208 PLS 1113	Discussion
0103	Allison Tjaden MW 11:00am - 11:50am F 12:00pm - 12:50pm	Seats (Total: 20) ESJ 2208 PLS 1158	Discussion
0104	Allison Tjaden MW 11:00am - 11:50am F 12:00pm - 12:50pm	Seats (Total: 20) ESJ 2208 PLS 1146	Discussion
0105	Allison Tjaden MW 11:00am - 11:50am M 3:00pm - 3:50pm	Seats (Total: 20) ESJ 2208 PLS 1119	Discussion
0106	Allison Tjaden MW 11:00am - 11:50am M 3:00pm - 3:50pm	Seats (Total: 20) ESJ 2208 PLS 1158	Discussion
0107	Allison Tjaden MW 11:00am - 11:50am M 4:00pm - 4:50pm	Seats (Total: 20) ESJ 2208 PLS 1158	Discussion
0108	Allison Tjaden MW 11:00am - 11:50am M 4:00pm - 4:50pm	Seats (Total: 20) ESJ 2208 PLS 1119	Discussion

FC01	Amy Marin, Eric Samet-Shaw MW 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 25) PLS 1115	

LARC152 **Greening Cities: Who Wins, Who Loses, and Who Cares?**

Credits: 3 Grading Method: Regular General Education: DSSP, SCIS

Credit only granted for: LARC152 or PLSC289I. Formerly: PLSC289I.

"Greening Cities" can have many interpretations: improving or adding urban economic activity, realizing energy efficiency, greening urban transport systems, etc. An important component of livable and sustainable cities and metropolitan ecosystems are the plants and landscapes that are inhabited by plants. With the majority of humans now living in cities, a survey of urban ecosystem principles and an examination of design and planning strategies for plant and landscape resources in urban and metropolitan regions is critical.

0101	David Myers Class time/details on ELMs Tu 9:30am - 10:45am	Seats (Total: 20) ONLINE PHY 4222	Discussion
0102	David Myers Class time/details on ELMs Th 9:30am - 10:45am	Seats (Total: 20) ONLINE PHY 4222	Discussion

LARC160 **Introduction to Landscape Architecture**

Credits: 3 Grading Method: Regular CORE: HO General Education: DSHU, DSSP

History, theory, philosophy and current practice of the profession of landscape architecture. Explores the interactive relationship between humans and their environment by examining people's perceptions of and changing attitude towards the landscape, as well as, an examination of how these are related to ecological and cultural influences.

0101	Dennis Nola MW 12:00pm - 12:50pm M 2:00pm - 2:50pm	Seats (Total: 20) ARC 0204 PLS 1113	Discussion
0102	Dennis Nola MW 12:00pm - 12:50pm M 3:00pm - 3:50pm	Seats (Total: 20) ARC 0204 PLS 1113	Discussion

0103	Dennis Nola MW 12:00pm - 12:50pm M 2:00pm - 2:50pm	Seats (Total: 20) ARC 0204 PLS 1168	Discussion
0104	Dennis Nola MW 12:00pm - 12:50pm M 3:00pm - 3:50pm	Seats (Total: 20) ARC 0204 PLS 1176	Discussion
0105	Dennis Nola MW 12:00pm - 12:50pm W 2:00pm - 2:50pm	Seats (Total: 20) ARC 0204 PLS 1113	Discussion
0106	Dennis Nola MW 12:00pm - 12:50pm W 3:00pm - 3:50pm	Seats (Total: 20) ARC 0204 PLS 1113	Discussion
0107	Dennis Nola MW 12:00pm - 12:50pm M 4:00pm - 4:50pm	Seats (Total: 18) ARC 0204 PLS 1113	Discussion
0108	Dennis Nola MW 12:00pm - 12:50pm M 5:00pm - 5:50pm	Seats (Total: 18) ARC 0204 PLS 1113	Discussion
0109	Dennis Nola MW 12:00pm - 12:50pm W 9:00am - 9:50am	Seats (Total: 20) ARC 0204 BPS 1232	Discussion
0110	Dennis Nola MW 12:00pm - 12:50pm W 10:00am - 10:50am	Seats (Total: 20) ARC 0204 BPS 1232	Discussion
FC01	Colleen Vacelet MW 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 40) PLS 1130	

LARC265 **Site Analysis and Ecological Principles**

(Perm req) Credits: 3 Grading Method: Regular

Prerequisite: LARC141. Corequisite: LARC240 and LARC221. Restriction: Permission of AGNR-Plant Science & Landscape Architecture department; and sophomore standing or higher; and must be in Landscape Architecture program. Credit only granted for: LARC265 or ARCH460.

Principles and methods of site analysis with an emphasis on the application of ecological principles in landscape architecture, architecture and planning.

0101	Thomas Mateya	Seats (Total: 20)	
	TuTh 9:30am - 10:45am	PLS 1158	

LARC320 **Principles of Site Engineering**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: LARC221. Corequisite: LARC340. Restriction: Must be in Landscape Architecture program; and junior standing or higher.

The study and application of landscape construction principles as applied to grading, drainage, site layout, storm water management, and vehicular and pedestrian circulation.

0101	Joseph Burkhardt	Seats (Total: 20)	
	Th 8:00am - 10:45am	PLS 2150	
	Tu 9:30am - 10:45am	PLS 2150	Lab

LARC340 **Site Planning and Design Studio**

(Perm req)

Credits: 5 Grading Method: Regular

Prerequisite: LARC221; and LARC240; and LARC265. Corequisite: LARC320. Restriction: Must be in Landscape Architecture program; and junior standing or higher.

An examination of the influence of landscape character and site features (natural and cultural) on landscape architecture, architecture and planning through application in the studio setting.

0101	Dennis Nola	Seats (Total: 17)	
	M 1:00pm - 1:50pm	PLS 2150	
	W 2:00pm - 2:50pm	PLS 2150	
	M 2:00pm - 4:50pm	PLS 2150	Lab
	W 3:00pm - 5:50pm	PLS 2150	Lab

LARC389 **Internship in Landscape Architecture**

(Perm req)

Credits: 3 Grading Method: Regular

A supervised internship where students earn credit for work experience related to their career goals. Each student must keep a work log, work on a special project, and produce a report related to this project. An evaluation from the external supervisor of the project is required. Participation requires application to the internship advisor in the preceding semester.

0101	Mark Carroll	Seats (Total: 15)	
	W 9:00am - 9:50am Contact instructor or department for details.	PLS 1119	

LARC420 **Professional Practice**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: LARC321. Restriction: Must be in Landscape Architecture program.

An introduction to and comparative study of the professional concerns of design firms. Focus on planning, legal, ethical, marketing and management considerations of interdisciplinary practices.

0101	JoAnn Trach Tongson	Seats (Total: 30)	
	Tu 9:30am - 12:15pm	PLS 1117	

LARC440 **Urban Studio Design**

(Perm req)

Credits: 5 Grading Method: Regular

Prerequisite: LARC321; and LARC340; and LARC341. Restriction: Must be in Landscape Architecture program.

The landscape architect's role within the interdisciplinary urban design process, focusing on urban site design issues. Pedestrian friendly site design and the future of sustainable development will be studied.

0101	Jack Sullivan	Seats (Total: 17)	
	MW 1:00pm - 1:50pm	PLS 2148	
	MW 2:00pm - 4:50pm	PLS 2148	Lab

LARC452 **Green Infrastructure and Community Greening**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PLSC100 or PLSC101; or permission of instructor. Restriction: Junior standing or higher. Credit only granted for: LARC489G or LARC452. Formerly: LARC489G.

A critical look and exploration of green infrastructure (GI) elements in the built environment in contributing to ecosystems services and the sustainability of the built environment. The course explores the science, issues, challenges, and the policy, planning and design solutions offered by green infrastructure.

0101	David Myers	Seats (Total: 20)
	M 9:00am - 10:50am	PLS 1113
	F 9:00am - 9:50am	PLS 1113
	for LARC majors only.	

LARC470 **Landscape Architecture Seminar**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: LARC321; and LARC341. Corequisite: LARC440. Restriction: Senior standing; and must be in Landscape Architecture program.

A combination of self-directed study, seminar, and lecture formats. An introduction to aspects of research methods, critical analysis, and proposal writing with a focus on urban and community design.

0101	Benjamin Tauber	Seats (Total: 13)
	M 9:00am - 11:50am	PLS 1162

LARC489R **Special Topics in Landscape Architecture; Fundamental Graphics**

(Perm req)

Credits: 3 Grading Method: Regular

Credit according to time scheduled and organization of course. A lecture and/or studio course organized as an in-depth study of a selected specialization of landscape architecture not covered by existing courses.

Permission of AGNR-Plant Science & Landscape Architecture department; and must be in Landscape Architecture program. Exploration of fundamental graphics used in landscape architecture.

0101	Che-Wei Yi	Seats (Total: 20)	
	TuTh 11:00am - 12:15pm	PLS 2152	
	TuTh 12:30pm - 1:45pm	PLS 2152	Lab

LARC499 **Independent Studies in Landscape Architecture**

(Perm req)

Credits: 1-4 Grading Method: Regular

Independent studies in landscape architecture including field, studio o library research under the direction of a faculty member.

Contact department for information to register for this course.

LARC620 **Graphic Tools for Landscape Representation**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Corequisite: LARC640. Restriction: Permission of AGNR-Plant Science & Landscape Architecture department.

This course integrates digital and analog methods of communication and provides an introduction to computer tools and techniques commonly used in landscape architecture practice. Non-drafting computer tools will be used to orient basic digital image capture, manipulation, and presentation formatting. Also includes techniques and application of various media for graphic communication associated with landscape architecture.

0101	Christopher Ellis	Seats (Total: 10)	
	TuTh 9:30am - 10:45am	PLS 1142	
	TuTh 11:00am - 12:15pm	PLS 1142	Lab

LARC640 **Graduate Studio I**

(Perm req)

Credits: 5 Grading Method: Regular, Audit

Corequisite: LARC620. Restriction: Permission of AGNR-Plant Science & Landscape Architecture department.

Principles and techniques of design as applied to shaping the landscape developing concepts in visual thinking, environmental awareness, and design intervention through studio exercises and projects.

0101	Byoung-Suk Kweon	Seats (Total: 10)	
	TuTh 1:00pm - 1:50pm	PLS 1142	
	TuTh 2:00pm - 4:50pm	PLS 1142	Lab

LARC642 **Graduate Studio III**

(Perm req)

Credits: 5 Grading Method: Regular, Audit

Prerequisite: LARC641. Corequisite: LARC670. Restriction: Permission of AGNR-Plant Science & Landscape Architecture department.

A focus on the interaction of landscape science (hydrology, geology, etc.) with the necessities and mechanisms of human settlements (transportation, economics, etc.) emphasizing innovative and forward thinking solutions to urbanization and ecological problems. It will apply this knowledge to landscape analysis, recreational planning and design, and community development, emphasizing resource management, spatial organization, landscape character, and the physical and social structure of community services. This course will be required for both Trach 1 and Track 2 students.

A Partnership for Action Learning in Sustainability (PALS) coure where students apply classroom learning to actual community needs.

0101	David Myers	Seats (Total: 10)	
	TuTh 1:00pm - 1:50pm	PLS 2154	
	TuTh 2:00pm - 4:50pm	PLS 2154	Lab

LARC670 **Landscape Architecture Theory and Criticism**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of AGNR-Plant Science & Landscape Architecture department.

Review and analysis of the body of literature concerning landscape architecture and relationships between humans and both natural and designed environments. Topics may include: rationalism, ethics, aesthetics, social and economic values, postmodernism, feminist, multiculturalism, ecological determinism, preservation/conservation, and sustainability and ecological design. Each week students will lead a debate and discussion on a theoretical issue based on the assigned readings for that week.

0101	Benjamin Tauber	Seats (Total: 10)
	M 9:00am - 11:50am	PLS 1162

LARC699 **Independent Studies in Landscape and Architecture**

(Perm req)

Credits: 1-3 Grading Method: Regular

Individual Instruction course.

Contact department for information to register for this course.

LARC721 **Landscape Construction Methods and Materials**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: LARC720. Restriction: Permission of AGNR-Plant Science & Landscape Architecture department.

Basic methods of constructing landscapes and manipulating the appropriate plant and inorganic materials for the creation of ecologically sustainable environments for human use. An examination of the use, properties, and detailing of materials used in landscape construction.

0101	Daniel Straub	Seats (Total: 10)	
	W 8:00am - 9:15am	PLS 2154	
	W 9:30am - 10:45am	PLS 2154	

LARC748 **Advanced Special Topics Studio**

Credits: 5 Grading Method: Regular, Audit

Advanced special topics comprehensive landscape architecture studio-exploration will focus on cultural, behavioral and ecological issues in the physical planning and design of urban landscapes.

0101	Victoria Chanse	Seats (Total: 10)	
	TuTh 1:00pm - 1:50pm	PLS 2156	
	TuTh 2:00pm - 4:50pm	PLS 2156	Lab

LARC799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Development of a terminal thesis on a problem in landscape architecture, designed to demonstrate comprehensive skills and knowledge achieved in the graduate program. The subject will be selected in consultation with an advisor and periodically reviewed with a committee headed by the advisor.

Contact department for information to register for this course.

LASC Certificate in Latin American Studies Fall 2018

LASC234 **Issues in Latin American Studies I**

Credits: 3 Grading Method: Regular CORE: HO, D General Education: DSHS, DSHU, DVUP

Also offered as: SPAN234, PORT234. Credit only granted for: LASC234, SPAN234, or PORT234.

Interdisciplinary study of major issues in Latin America and the Caribbean, including Latin America's cultural mosaic, migration and urbanization. Democratization and the role of religions. Taught in English.

0101	Britta Anderson	Seats (Total: 30)	
	TuTh 3:30pm - 4:45pm	TYD 2110	

0201	Britta Anderson TuTh 12:30pm - 1:45pm	Seats (Total: 35) ASY 3203

LASC234H **Issues in Latin American Studies I**

Credits: 3 | Grading Method: Regular | CORE: HO, D | General Education: DSHS, DSHU, DVUP

Also offered as: SPAN234, PORT234. Credit only granted for: LASC234, SPAN234, or PORT234.

Interdisciplinary study of major issues in Latin America and the Caribbean, including Latin America's cultural mosaic, migration and urbanization. Democratization and the role of religions. Taught in English.

0101	Britta Anderson TuTh 3:30pm - 4:45pm	Seats (Total: 5) TYD 2110

LASC250 **History of Colonial Latin America**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, DVUP

Also offered as: HIST250. Credit only granted for: LASC250 or HIST250.

Introductory survey of the history of Latin America from pre-Columbian Indian cultures to the beginning of the wars for independence (ca. 1810), covering cultural, political, social, and economic developments. Major themes include conquest, colonialism, indigenous culture, African slavery, religion, race and ethnicity, and gender ideologies.

0101	David Sartorius TuTh 11:00am - 12:15pm	Seats (Total: 40) KEY 1117

LASC286 **Internship in Latin American/Caribbean Studies**

(Perm req)

Credits: 1-6 | Grading Method: Regular, Pass-Fail

Prerequisite: LASC234, SPAN234, LASC235, SPAN235, LASC250, HIST250, LASC251, or HIST251; and permission of Latin American Studies Center required. Restriction: Minimum cumulative GPA of 2.5; and cannot have more than 60 credits total. Additional information: The course is primarily intended for students seeking the Certificate in Latin American Studies, but exceptions will be considered for students with educational or career interests which lie in this area. Student internships must be approved by the Director and students must secure an appropriate faculty mentor to supervise the internship course.

Internship experience with an organization that works with or studies Latin American and/or the Caribbean. This is an experiential learning course that provides semester-long training that enriches the student's academic field of study and the LASC Certificate. Students submit a final written report of how the experience ties into their major field of study.

Contact department for information to register for this course.

LASC348E **Special Topics in Latin American Studies; Caribbean Literature in English**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU, DVUP

Topics to be announced when offered.

Also offered as ENGL362. Credit granted for ENGL362 or LASC348E.

0201	Merle Collins	Seats (Total: 28)
	TuTh 9:30am - 10:45am	TWS 1107

LASC448A **Special Topics in Latin American Studies; Caribbean Literature by Women**

Credits: 3 | Grading Method: Regular

Intensive study of a selected topic related to Latin American Studies.

Also offered as ENGL448A and WMST448A. Credit only offered for ENLG448A, LASC448A or WMST448A.

0101	Merle Collins	Seats (Total: 23)
	TuTh 11:00am - 12:15pm	TWS 0221

LASC458 **Senior Capstone Course in Latin American Studies**

Credits: 3 | Grading Method: Regular

Capstone course for advanced students in the Latin American Studies Certificate Program or other students with appropriate preparation. Interdisciplinary topics will vary each semester.

0101	Britta Anderson	Seats (Total: 12)
	TuTh 9:30am - 10:45am	HJP 4120

LASC486 **Internship in Latin American/Caribbean Studies**

(Perm req)

Credits: 1-6 | Grading Method: Regular, Pass-Fail

Prerequisite: Student must have completed at least two LASC courses, one of which must be a required/core course (LASC/SPAN234, LASC/SPAN235, LASC/HIST250, or LASC/HIST251); and permission of Latin American Studies Center required. Restriction: Minimum cumulative GPA of 2.5; and must have earned a minimum of 60 credits. Additional information: The course is primarily intended for students seeking the Certificate in Latin American Studies, but exceptions will be considered for students with educational or career interests which lie in this area. Student internships must be approved by the Director, and students must secure an appropriate faculty mentor for the internship course. An internship course will be approved only if a faculty supervisor is available.

Internship experience with an organization that works with or studies Latin American and/or the Caribbean. This is an experiential learning course that provides semester-long training that enriches the student's academic field of study and the LASC Certificate. Students submit a final written report of their experience, including critical analysis of the institutional relevance to their major field of study and to Latin American Studies. Students will also be asked to give an oral presentation.

Contact department for information to register for this course.

LASC499 **Independent Study in Latin American Studies**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Independent Study in Latin American Studies.

0101	Britta Anderson	Seats (Total: 3)
	Contact instructor or department for details.	

LATN Latin Fall 2018

LATN120 **Intensive Latin**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Permission of ARHU-Classics department. Restriction: Must not have completed LATN102.

Elements of Latin grammar and vocabulary; elementary reading. The first year's study of Latin compressed into a single semester.

0101	Robert Matera	Seats (Total: 20)
	MWF 12:00pm - 12:50pm	HBK 1108
	W 1:00pm - 1:50pm	HBK 1108

LATN201 **Intermediate Latin**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit CORE: HO

Prerequisite: Must have completed LATN102 at University of Maryland, College Park; or permission of ARHU-Classics department. Formerly: LATN203.

0101	Robert Matera	Seats (Total: 10)
	MWF 10:00am - 10:50am	HBK 0125
	M 9:00am - 9:50am	HBK 0125

LATN304 **Cicero and Sallust**

Credits: 3 Grading Method: Regular

Prerequisite: LATN201; or students who have taken courses with comparable content may contact the department.

Selected speeches of Cicero and selections from the historian Sallust. Rhetorical, social and political context. Readings are in Latin.

0101	Eric Adler	Seats (Total: 20)
	MW 3:30pm - 4:45pm	MMH 1218

LATN410 **Latin Historians**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Latin historical writing as a literary genre. Influences, style, and literary techniques. Readings are in Latin.

0101	Eric Adler	Seats (Total: 10)
	M 6:15pm - 8:45pm	Location: TBA

LATN488Q **Latin Readings; Latin Comedy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The reading of one or more selected Latin authors from antiquity through the Renaissance. Reports.

0101	Francisco Barrenechea	Seats (Total: 7)
	Tu 5:00pm - 7:40pm	MMH 1218

LATN499 **Independent Study in Latin Language and Literature**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

LATN688P **Special Topics in Latin Literature; Latin Historians**

Credits: 3 Grading Method: Regular, Audit

Formerly offered as LATN688H. Credit only granted for LATN688H or LATN688P.

0101	Eric Adler	Seats (Total: 10)
	M 6:15pm - 8:45pm	MMH 1218

LATN688Q **Special Topics in Latin Literature**

Credits: 3 Grading Method: Regular, Audit

0101	Francisco Barrenechea	Seats (Total: 7)
	Tu 5:00pm - 7:40pm	MMH 1218

LATN699 **Independent Studies in Latin Literature**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Contact department for information to register for this course.

LATN799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

LBSC Library Science Fall 2018

LBSC602 **Serving Information Needs**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of INFO-College of Information Studies. Credit only granted for: LBSC602, or both LBSC601 and LBSC650.

An introduction to the skills necessary to interact directly with individuals through the exploration of user behavior theory, strategies to locate and evaluate information from print and electronic resources, and policies and procedures to ensure that all individuals can become information literate.

0101	Beth St Jean Tu 2:00pm - 4:45pm	Seats (Total: 30) HBK 0115
ML01	Abbie Basile Class time/details on ELMs	Seats (Total: 30) ONLINE

LBSC631 **Achieving Organizational Excellence**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of INFO-College of Information Studies. Credit only granted for: LBSC631 or LBSC635.

Overview of the principles, practices, and techniques required for effective leadership and management. The innovative strategies, management responsibilities, and skills needed to achieve and sustain high organizational performance in information-based cultural institutions.

0201	Stephanie Tuszynski Th 6:00pm - 8:45pm	Seats (Total: 30) SQH 1103
ML01	Bruce Dearstyne Class time/details on ELMs	Seats (Total: 25) ONLINE

LBSC645 **Literature and Materials for Children**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of INFO-College of Information Studies.

Survey of literature and other materials for children and youth. Criteria for evaluating and using such materials as they relate to the needs, interests, reading abilities, and other capabilities of young readers.

CT01	Edith Ching Class time/details on ELMs	Seats (Total: 15) ONLINE
ML01	Edith Ching Class time/details on ELMs	Seats (Total: 25) ONLINE

LBSC671 **Creating Information Infrastructures**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of INFO-College of Information Studies. Credit only granted for: LBSC671, or LBSC670 and LBSC690.

Foundations of acquiring and managing collections, information structures, indexing and discovery systems needed by information professionals. An introduction to the theoretical concepts, trends, systems, and technologies central to the information field.

0101	Joseph Koivisto M 6:00pm - 8:45pm	Seats (Total: 30) HBK 1112
ML01	Margaret Dull Class time/details on ELMs	Seats (Total: 25) ONLINE

LBSC703 **Field Study in Archives and Digital Curation**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: LBSC602, LBSC631, and LBSC671; and must have completed 9 additional credits. Or permission of instructor. Restriction: Must be in Library and Information Science (Master's) program; and permission of INFO-College of Information Studies.

Supervised internship experience in archives or digital curation programs in organizations and institutions.

0101	Kenneth Heger Th 6:00pm - 8:45pm	Seats (Total: 30) HBK 0103

LBSC707 **Field Study in Information Service**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: LBSC602, LBSC671, and LBSC631; and must have completed an additional 9 credits. Or permission of instructor. Restriction: Must be in Library and Information Science (Master's) program; and permission of INFO-College of Information Studies.

Supervised internship experience in a library, archive, museum, or other information organization.

ML01	Eric Hung Class time/details on ELMs	Seats (Total: 25) ONLINE

LBSC709 **Independent Study**

Credits: 1-3 Grading Method: Regular, Audit

Intensive individual study, reading, or research in an area of specialized interest under faculty supervision.

Signed independent study form must be presented to CLIS Admissions Office.

Contact department for information to register for this course.

LBSC724 **Public Library Seminar**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of INFO-College of Information Studies.

Organization, support, and service patterns of public libraries. The public library in national, state, and local contexts.

ML01	Michelle Hamiel	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

LBSC731 **Special Collections**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: LBSC602; or permission of instructor. Restriction: Permission of INFO-College of Information Studies.

Management of special collections, whose holdings may include manuscripts (particularly personal papers), non-textual materials, graphical materials, and rare books, with analysis of the custodial and management functions associated with special collections.

ML01	Ashleigh Coren	Seats (Total: 30)
	Class time/details on ELMs	ONLINE

LBSC741 **Seminar in School Library Administration**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: INST650; or permission of instructor. Restriction: Permission of INFO-College of Information Studies.

Development, management, and evaluation of school library programs at all levels.

ML01	Jennifer Sturge	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

LBSC742 **Collaborative Instructional Design and Evaluation**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: INST650; or permission of instructor. Restriction: Permission of INFO-College of Information Studies.

School librarians' collaborative role in instruction. Systematic design development, and evaluation of instructional strategies and products for learning.

CT01	Mega Subramaniam	Seats (Total: 15)
	Class time/details on ELMs	ONLINE

LBSC744 **Internship in School Libraries**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: INST650, LBSC641, INST651, and LBSC741; or permission of instructor. Restriction: Permission of instructor; and permission of INFO-College of Information Studies.

Opportunities to observe and participate in the operation of school libraries at the elementary and secondary levels under the supervision of certified school librarians. Required of all School Library Media certification candidates.

ML01	Renee Hill	Seats (Total: 10)
	Class time/details on ELMs	ONLINE

LBSC791 **Designing Principled Inquiry**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: LBSC671, LBSC602, and LBSC631; and additional 9 credits of coursework applied to the MLIS degree. Or permission of instructor. Restriction: Permission of INFO-College of Information Studies.

Critical analysis of roles of information professions and institutions in integrating theory, methods, practice, policies, and values of the field, and applying them to the design of future information systems and services.

0101	James Donaldson	Seats (Total: 30)
	W 6:00pm - 8:45pm	HBK 2119

LGBT Lesbian Gay Bisexual Transgender Studies — Fall 2018

LGBT200 **Introduction to Lesbian, Gay, Bisexual, and Transgender Studies**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB, D | General Education: DSHS, DVUP

Credit only granted for: LGBT200.

An interdisciplinary study of the historical and social contexts of personal, cultural and political aspects of LGBT life. Sources from a variety of fields, such as anthropology, history, psychology, sociology, and women's studies, focusing on writings by and about LGBT people.

0401	Ivan Ramos MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 20) TWS 0320 CHM 0124	Discussion
0402	Ivan Ramos MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 20) TWS 0320 WDS 1131	Discussion
0403	Ivan Ramos MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 20) TWS 0320 KEY 0124	Discussion
0404	Ivan Ramos MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 20) TWS 0320 JMZ 3120	Discussion

LGBT265 **Lesbian, Gay, Bisexual, and Transgender Literatures**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HL, D | General Education: DSHU, DVUP

Restriction: Must not have completed ENGL265. Also offered as: ENGL265. Credit only granted for: ENGL265 or LGBT265.

Exploration of literary and cultural expressions of sexuality and gender. Study of a range of historical periods and literary genres, such as essay, poetry, novel, drama, film. Topics include sexual norms and dissidence, gender identity and expression, the relationship between aesthetic forms and sexual subjectivity. Interpretation of texts particularly through the lens of queer theory. Examination of how sex and gender intersect with other forms of difference, including race and class.

0101	Justin Thompson TuTh 12:30pm - 1:45pm	Seats (Total: 30) TWS 1106	

0201	Hillary Roegelein	Seats (Total: 30)
	TuTh 2:00pm - 3:15pm	LEF 1220

LGBT350 **Lesbian, Gay, Bisexual, and Transgender People and Communication**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP, DVCC

Prerequisite: LGBT200; and permission of LGBT Studies Program.

Study of differences, stereotypes, and values distinguishing LGBT people and of effective means of communicating such differences to non-LGBT people. Emphasis on contemporary LGBT life and on the development of didactic skills. Preparation and presentation of forums on LGBT people; facilitation of workshops in various outreach locations (residence halls, Greek system, classes).

0101	Jaison Cooper	Seats (Total: 12)
	W 3:30pm - 5:10pm	WDS 1131
	Contact instructor or department for details.	

LGBT386 **Lesbian, Gay, Bisexual, and Transgender Community Organization Internship**

(Perm req)

Credits: 3-6 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP, DVCC

Prerequisite: 9 credits in LGBT courses. Restriction: Permission of LGBT Studies Program.

Supervised internship experience with a community organization that expressly serves lesbian, gay, bisexual, and transgender people. Students will be expected to relate course material to experience in an analysis of an organization's activities.

Contact department for information to register for this course.

LGBT448L **Special Topics in Lesbian, Gay, Bisexual, and Transgender Studies; Black Queer Studies**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit , D | General Education: DVUP

In-depth study of particular themes and issues in LGBT studies.

Black Queer Studies is an intersectional and interdisciplinary approach to LGBTQ+ Studies and Race Studies. In this course, we will center Blackness to meditate upon the overlapping and interwoven categories of race, gender, and sexuality with the goal of decoupling whiteness from LGBTQ+ studies and decoupling heterosexuality from Black studies. We will look at texts from the social sciences and humanities as well as some short literature and film in order to think about how Black queer liberation can provide tools and a guide for all of our collective liberation.

0101	Sydney Lewis	Seats (Total: 30)
	TuTh 12:30pm - 1:45pm	SKN 1115

LGBT448Y **Special Topics in Lesbian, Gay, Bisexual, and Transgender Studies; Dickinson, Whitman, Erotics, and American Poetry**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | , D | General Education: DVUP

In-depth study of particular themes and issues in LGBT studies.

Also offered as ENGL439D and WMST498Y. Credit granted for ENGL439D, LGBT448Y, or WMST498Y.

0101	Martha Nell Smith	Seats (Total: 23)
	TuTh 12:30pm - 1:45pm	TWS 0205

LGBT499 **Independent Study**

(Perm req)

Credits: 1-3 | Grading Method: Regular, Pass-Fail, Audit

Directed research and analysis in LGBT Studies on a topic selected by the student.

Contact department for information to register for this course.

LING Linguistics Fall 2018

LING200 **Introductory Linguistics**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS

Credit only granted for: HESP120 or LING200. Additional information: Does not count toward the Linguistics major and does not fulfill prerequisite requirements for all upper-level courses.

An exploration of the nature of human language, designed for non-majors Introduction to the basic concepts and methodology of modern linguistic analysis (sound systems, word formation, sentence structure). Additional topics may include: semantics, pragmatics, social aspects of language, dialects, language change, acquisition, writing systems, typology, language universals, comparison with other communication systems, etc.

0101	Margaret Antonisse	Seats (Total: 30)	
	MW 1:00pm - 1:50pm	MMH 1400	
	F 10:00am - 10:50am	MMH 1304	Discussion

0102	Margaret Antonisse MW 1:00pm - 1:50pm F 11:00am - 11:50am	Seats (Total: 30) MMH 1400 MMH 1304	Discussion
0103	Margaret Antonisse MW 1:00pm - 1:50pm F 1:00pm - 1:50pm	Seats (Total: 30) MMH 1400 MMH 1304	Discussion
0104	Margaret Antonisse MW 1:00pm - 1:50pm F 12:00pm - 12:50pm	Seats (Total: 30) MMH 1400 MMH 1304	Discussion

LING240 **Language and Mind**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO | General Education: DSHU

Additional information: Required for Linguistics majors and recommended for students in related fields.

The study of language as a cognitive phenomenon. Focus on mastering the concepts and technical skills required for further courses in linguistics. Ways of representing people's knowledge of their native language, ways in which that knowledge is attained naturally by children, and how it is used in speaking and listening. Additional topics may include: animal communication, language and the brain, language and thought.

0101	Tonia Bleam MWF 11:00am - 11:50am	Seats (Total: 50) SQH 1117

LING248 **Introduction to Laboratory Research in Linguistics**

(Perm req)

Credits: 2-3 | Grading Method: Regular

Individualized, collaborative research course aimed at developing skills for laboratory research in language acquisition, sentence processing or neurolinguistics. Learning to conduct research in laboratory linguistics as part of a research team that will create original research in the field.

0101	Jeffrey Lidz TBA	Seats (Total: 15) MMH 1304

LING272 **Biophysics of Language**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSNS, SCIS

Examines the nature of mental representation of language in the physiology of the mind/brain, how it evolved, how it emerges in learners' minds, and how it decays through injury and illness. Insights from linguistics, cognitive psychology, neuroscience, animal behavior, molecular biology, and biophysics are brought to bear on how an abstract systematic behavior can arise within an animal brain.

Restricted to students in Carillon Communities.

0101	Juan Uriagereka	Seats (Total: 30)
	MW 10:00am - 11:15am	MMH 1304

LING298A **Special Topics in Linguistics; Writing Systems**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics vary.

0101	Amalia Gnanadesikan	Seats (Total: 30)
	TuTh 3:30pm - 4:45pm	ASY 3219

LING311 **Syntax I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: LING240.

Basic concepts, analytical techniques of generative syntax, relation to empirical limits imposed by viewing grammars as representations of a component of human mind. Aspects of current theories.

0101	Tonia Bleam	Seats (Total: 25)
	TuTh 2:00pm - 3:15pm	MMH 1304

LING320 **Phonetics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Prerequisite: Minimum grade of C- in LING200. Recommended: LING240. Additional information: This course counts as a core course for the linguistics major. Only one of Ling320 or HESP403 can be used to count towards the Linguistics major.

Representations and models of acoustic and articulatory phonetics. Develops concepts and skills for description, measurement and scientific analysis of the sound systems of human languages, including various varieties of English.

0101	William Idsardi TuTh 9:30am - 10:45am	Seats (Total: 25) VMH 1207

LING321 **Phonology I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: LING240.

Properties of sound systems of human languages, basic concepts and analytical techniques of generative phonology. Empirical limits imposed by viewing grammars as cognitive representations. Physiological properties and phonological systems; articulatory phonetics and distinctive feature theory.

0101	Margaret Antonisse TuTh 11:00am - 12:15pm	Seats (Total: 25) MMH 1304

LING410 **Grammar and Meaning**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Permission of instructor; or LING311.

The basic notions of semantic theory: reference, quantification, scope relations, compositionality, thematic relations, tense and time, etc. The role these notions play in grammars of natural languages. Properties of logical form and relationship with syntax.

0101	Daniel Goodhue TuTh 9:30am - 10:45am	Seats (Total: 30) MMH 1304

LING429A **Topics in Phonology; Long-Distance Effects**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Advanced seminar in phonology. Topics vary.

Prerequisite: LING321. Different formal approaches to long-distance effects and dependencies among phonological segments, including reduplication, vowel harmony, and allomorphy.

0101	Maxime Papillon TuTh 12:30pm - 1:45pm	Seats (Total: 10) MMH 1304

LING440 **Grammars and Cognition**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: LING321 and LING311.

Relationship between the structure, development and functioning of grammars and the structure, development and functioning of other mental systems. Interpretations of experimental and observational work on children's language, aphasia, speech production and comprehension.

0101	Ellen Lau	Seats (Total: 25)
	TuTh 3:30pm - 4:45pm	MMH 1304

LING448 **Advanced Laboratory Research in Linguistics**

(Perm req)

Credits: 2-3 Grading Method: Regular

Individualized, collaborative research course aimed at developing skills for laboratory research in language acquisition, sentence processing or neurolinguistics. Conducting a research project in laboratory linguistics as part of a team creating original research relevant to current issues in linguistics.

0101	Jeffrey Lidz	Seats (Total: 15)
	Contact instructor or department for details.	

LING449A **Topics in Psycholinguistics; Word and Sentence Processing**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Critical evaluation of primary research in psycholinguistics. Relating theoretical hypotheses to experimental hypotheses and predictions. Evaluation of experimental results. Emphasis on hands-on experience and experimental methodologies. Specific topics vary.

Prerequisite: LING311 and LING321. Current research and theories in psycho-/neurolinguistics on word and sentence processing. Focus on the interaction of yntactic and phonological information in the mental lexicon.

0101	Phoebe Gaston	Seats (Total: 10)
	MW 1:00pm - 2:15pm	MMH 1401G

LING449Q **Topics in Psycholinguistics; Learning and Comprehension**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Critical evaluation of primary research in psycholinguistics. Relating theoretical hypotheses to experimental hypotheses and predictions. Evaluation of experimental results. Emphasis on hands-on experience and experimental methodologies. Specific topics vary.

Prerequisite: LING311 and LING321. Exploration of how language learning and comprehension occur despite variability in the speech signal. Discussion and evaluation of experimental and computational research.

0101	Katarzyna Hitczenko MW 3:00pm - 4:15pm	Seats (Total: 10) MMH 1304

LING499 **Directed Studies in Linguistics**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Independent study or research on language under the supervision of a faculty member.

Contact department for information to register for this course.

LING499C **Directed Studies in Linguistics; Teaching Assistantship**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Independent study or research on language under the supervision of a faculty member.

Designed for students that will be teaching assistants for LING200.

0101	Margaret Antonisse Contact instructor or department for details.	Seats (Total: 4)
0201	Tonia Bleam Contact instructor or department for details.	Seats (Total: 4)

LING499H **Directed Studies in Linguistics**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Independent study or research on language under the supervision of a faculty member.

Contact department for information to register for this course.

LING610 **Syntactic Theory**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: LING312.

Intensive introduction to transformational syntax.

0101	Howard Lasnik	Seats (Total: 15)	
	Tu 2:00pm - 4:30pm	MMH 1108B	
	Th 2:00pm - 3:30pm	MMH 1108B	Discussion

LING620 **Phonological Theory**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: LING322.

Topics in current phonological theory, as they relate to data from various languages. Segmental and prosodic analysis. Autosegmental theory, metrical theory, etc.

0101	Naomi Feldman	Seats (Total: 15)
	TuTh 9:30am - 10:45am	MMH 1108B

LING640 **Psycholinguistics**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of instructor.

Core graduate course in psycholinguistics, covering leading theoretical approaches and experimental methods in language acquisition, language processing, and neurolinguistics.

0101	Colin Phillips	Seats (Total: 20)
	MW 12:00pm - 1:30pm	MMH 1108B

LING644 **Language Acquisition**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: LING640.

Interpretations of observational and experimental work on children's language development, and relationship between developmental stages and theories of human language faculties.

0101	Jeffrey Lidz	Seats (Total: 20)
	MW 2:00pm - 3:15pm	MMH 1108B

LING660 **Introduction to Semantics**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Restriction: Permission of instructor.

Basic concepts and methods of contemporary semantic theory including basic set theory, elementary propositional and predicate calculus, the structure of predicates and propositions, quantification binding. Prepares students for study of more advanced topics in semantics.

Also offered as PHIL688T. Credit granted for LING660 or PHIL688T.

0101	Alexander Williams	Seats (Total: 15)
	TuTh 11:00am - 12:15pm	MMH 1108B

LING663 **Pragmatics**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: LING660 or PHIL660; or permission of instructor. Recommended: LING661.

An intensive introduction to formal linguistic pragmatics: the study of systematic dependencies of meaning on context of use. Topics will include implicature, presupposition, reference, topic, focus, and the linguistic means of expressing these.

0101	Alexander Williams	Seats (Total: 15)
	TuTh 2:00pm - 3:15pm	MMH 1401G

LING678 **Linguistic Field Methods**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

A hands-on introduction to conducting linguistic analysis on an unfamiliar language. Students work with a native speaker of a language that they are not familiar with, devising elicitations and developing analyses. Investigations will include phonological, morphological, syntactic, and semantic properties of the language.

0101	Maria Polinsky	Seats (Total: 15)
	W 3:30pm - 6:30pm	MMH 1401G

LING689 **Independent Study**

Credits: 1-3

Grading Method: Regular, Audit

Independent studies in grammatical theory.

Contact department for information to register for this course.

LING698 **Directed Study; Seminar**

Credits: 1-3 Grading Method: Regular, Audit

0101	Howard Lasnik	Seats (Total: 10)
	F 3:00pm - 5:00pm	Location: TBA

LING698T **Directed Study; Pedagogy for Linguistics**

Credits: 1 Grading Method: Regular, Audit

Required for LING200 Teaching Assistants.

0101	Margaret Antonisse	Seats (Total: 6)
	Contact instructor or department for details.	

LING723 **Computational Linguistics I**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: CMSC421; or students who have taken courses with comparable content may contact the department; or permission of instructor. Also offered as: CMSC723, INST735. Credit only granted for: CMSC723, LING723, or INST735. Formerly: LING645.

Fundamental methods in natural language processing. Topics include: finite-state methods, context-free and extended context-free models of syntax; parsing and semantic interpretation; n-gram and Hidden Markov models, part-of-speech tagging; natural language applications such as machine translation, automatic summarization, and question answering.

0101	Jordan Boyd-Graber Ying	Seats (Total: 74)
	MW 3:30pm - 4:45pm	CSI 3117

LING798 **Research Papers in Linguistics**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

LING799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

LING819A **Seminar in Syntactic Theory**

Credits: 3 Grading Method: Regular, Audit

Current topics in research on syntactic theory.

0101	Omer Preminger M 3:30pm - 6:30pm	Seats (Total: 15) MMH 1108B

LING859A **Seminar in Language Acquisition**

Credits: 3 Grading Method: Regular, Audit

Current topics in research on language acquisition.

0101	Jeffrey Lidz MW 2:00pm - 3:15pm	Seats (Total: 15) MMH 1108B

LING888 **Doctoral Research Paper**

Credits: 1-6 Grading Method: Regular, Audit

Students will strengthen their abilities to formulate coherent research questions, conduct research and create a publishable piece of work. In addition, the course is part of a set of requirements to advance to doctoral candidacy.

0101	Howard Lasnik Contact instructor or department for details.	Seats (Total: 3)
0201	Norbert Hornstein Contact instructor or department for details.	Seats (Total: 3)
0301	Tonia Bleam Contact instructor or department for details.	Seats (Total: 3)
0401	Jeffrey Lidz Contact instructor or department for details.	Seats (Total: 3)
0501	Andrea Zukowski Contact instructor or department for details.	Seats (Total: 3)

0601	Juan Uriagereka Contact instructor or department for details.	Seats (Total: 3)
0701	Amy Weinberg Contact instructor or department for details.	Seats (Total: 3)
0801	William Idsardi Contact instructor or department for details.	Seats (Total: 3)
0901	Philip Resnik Contact instructor or department for details.	Seats (Total: 3)
1001	Maria Polinsky Contact instructor or department for details.	Seats (Total: 3)
1101	Paul Pietroski Contact instructor or department for details.	Seats (Total: 3)
1201	Colin Phillips Contact instructor or department for details.	Seats (Total: 3)
1301	Margaret Antonisse Contact instructor or department for details.	Seats (Total: 3)
1401	Valentine Hacquard Contact instructor or department for details.	Seats (Total: 3)
1501	Alexander Williams Contact instructor or department for details.	Seats (Total: 3)
1601	Naomi Feldman Contact instructor or department for details.	Seats (Total: 3)
1701	Ellen Lau Contact instructor or department for details.	Seats (Total: 3)
1801	Omer Preminger Contact instructor or department for details.	Seats (Total: 3)

LING889 **Directed Research**

Credits: 1-8 Grading Method: Regular, Audit

Contact department for information to register for this course.

LING889A **Directed Research; Professional Methods**

Credits: 1 Grading Method: Regular, Audit

0101	Howard Lasnik	Seats (Total: 15)
	W 11:00am - 12:30pm	MMH 1401G

LING896 **Research Paper in Minor Area**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: LING888.

This course is designed to strengthen the students' ability to do research in a minor area of expertise, and to help them create a publishable piece. In addition, the course constitutes part of a set of requirements to advance to doctoral candidacy.

Contact department for information to register for this course.

LING898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

LING899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

MATH Mathematics Fall 2018

MATH003 **Developmental Mathematics**

Credits: 3 Grading Method: Sat-Fail

A review of Intermediate High School Algebra intended for students preparing for one of the credit bearing Fundamental Studies Math Courses. It is taught in special computer labs using a self-paced computer program. The curriculum will be geared toward the student's level of algebra skills and eventual goals. There is a special fee for the course that may be applied in addition to the regular tuition charge. Students should refer to the schedule of classes for details on fees as they apply to a particular semester. The course does not carry any credit toward any degree at the University. The course is repeatable. Topics will be chosen from exponents, polynomials, linear equations, quadratic equations as well as polynomial, rational, exponential and logarithm functions and elementary probability or statistics, depending on the student.

There is a special fee for this class in addition to the regular tuition charge.

0102	Barbara Michelato MWF 8:00am - 9:50am *Restricted to students in the uTERP Program only. Contact Michelle Udel at (301) 314-8418 for more information.*	Seats (Total: 25) PHY 4220
0201	Barbara Michelato MWF 10:00am - 11:50am	Seats (Total: 25) CEN 0200
0202	Barbara Michelato MWF 10:00am - 11:50am	Seats (Total: 25) PHY 4220
0601	Colleen Terpos TuTh 8:00am - 10:45am	Seats (Total: 25) CEN 0200
0602	Colleen Terpos TuTh 8:00am - 10:45am	Seats (Total: 25) PHY 4220
0701	Colleen Terpos TuTh 11:00am - 1:45pm	Seats (Total: 25) CEN 0200
0702	Colleen Terpos TuTh 11:00am - 1:45pm	Seats (Total: 25) PHY 4220
FC01	Jack Baker MW 6:00pm - 8:45pm *Restricted to students in Freshman Connection.*	Seats (Total: 42) CEN 0200
FC02	Jack Baker MW 6:00pm - 8:45pm *Restricted to students in Freshman Connection.*	Seats (Total: 25) PHY 4220

MATH007 **Algebra for MATH 107**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

A review of Intermediate High School Algebra intended for students preparing for MATH107. It is taught 5 days per week for the first 5 weeks, then leads directly into a special section of MATH107, the same semester, which also meets 5 days per week. Continuation in MATH107 is conditional on the student passing the MATHEMATICS PLACEMENT EXAM at the appropriate level. Topics include linear equations, linear inequalities, operations on polynomials, factoring, solutions of quadratic equations, as well as exponential and logarithm functions. MATH007 does not carry any credit toward any degree at the University, nor is it graded. It leads to either MATH107 or MATH003, both of which are graded.

Contact department for information to register for this course.

MATH013 **Algebra for MATH 113**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

A review of Intermediate High School Algebra intended for students preparing for MATH113. It is taught 5 days per week for the first 5 weeks, then leads directly into a special section of MATH113, the same semester, which also meets 5 days per week. Continuation in MATH113 is conditional on the student passing the MATHEMATICS PLACEMENT EXAM at the appropriate level. Topics include exponents, polynomials, linear equations, quadratic equations, as well as polynomial, rational, exponential, logarithm functions, and trigonometry. MATH013 does not carry any credit toward any degree at the University, nor is it graded. It leads directly to MATH113 (or MATH110), or MATH003, all of which are graded.

Contact department for information to register for this course.

MATH015 **Algebra for MATH 115**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

A review of Intermediate High School Algebra intended for students preparing for MATH115. It is taught 5 days per week for the first 5 weeks, then leads directly into a special section of MATH115, the same semester, which also meets 5 days per week. Continuation in MATH115 is conditional on the student passing the MATHEMATICS PLACEMENT EXAM at the appropriate level. Topics include exponents, polynomials, linear equations in one and two variables, quadratic equations, as well as polynomial, rational, exponential, logarithm functions and trigonometry. MATH015 does not carry any credit toward any degree at the University, nor is it graded. It leads directly to MATH115 (or MATH111 or MATH113 or MATH110), or MATH003, all of which are graded.

Contact department for information to register for this course.

MATH107 **Introduction to Math Modeling and Probability**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: FSMA

Prerequisite: Must have math eligibility of Math 107 or higher; and math eligibility is based on Math Placement Exam or successful completion of MATH003 with appropriate eligibility. Restriction: Not open to students majoring in mathematics, engineering, business, life sciences, and the physical sciences;; and must not have completed MATH120, MATH130, MATH136, or MATH140; and must not have completed MATH220; and must not have completed any MATH or STAT course with a prerequisite of MATH120, MATH130, MATH136, MATH140 or MATH220. Credit only granted for: STAT100, MATH107, MATH110, MATH111, MATH112, or MATH113. Formerly: Math 110 and Math 111. Additional information: Students who have credits for MATH107 may not also receive credits for STAT100, MATH110, MATH 111, MATH112, or MATH113.

A goal is to convey the power of mathematics as shown by a variety of problems which can be modeled and solved by quantitative means. Also included is an introduction to probability. Topics include data analysis, equations, systems of equations, inequalities, elementary linear programming, Venn diagrams, counting, basic probability, permutations, combinations, tree diagrams, standard normal and normal distributions. The mathematics of finance is covered. The course includes problem solving and decision making in economics, management, and social sciences.

0101	Afrouz Rahmati MWF 11:00am - 11:50am	Seats (Total: 30) MTH B0425
0201	Afrouz Rahmati MWF 12:00pm - 12:50pm	Seats (Total: 30) MTH B0425
0301	Brooke Herzog MWF 1:00pm - 1:50pm	Seats (Total: 30) MTH B0425
0401	Brooke Herzog MWF 2:00pm - 2:50pm	Seats (Total: 30) MTH B0425
1201	Debra Franklin MTuWThF 11:00am - 11:50am	Seats (Total: 22) CHM 0122
1301	Debra Franklin MTuWThF 1:00pm - 1:50pm	Seats (Total: 18) MTH B0431
FC01	Julie Daberkow MW 3:00pm - 4:15pm	Seats (Total: 30) CHM 2201

MATH113 **College Algebra and Trigonometry**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: FSMA

Prerequisite: Must have math eligibility of MATH113 or higher; and math eligibility is based on the Math Placement Exam or the successful completion of MATH 003 with appropriate eligibility. Restriction: Must not have completed MATH115, MATH120, MATH130, MATH136, or MATH140; and must not have completed any course with a prerequisite of MATH120, MATH130, MATH136, MATH140 or MATH220; and must not have completed MATH112 or MATH220. Credit only granted for: Students who have credits for MATH113 may not also receive credits for MATH107, MATH110, MATH112, or MATH115.

Topics include elementary functions including graphs and applications of: polynomial, rational, exponential, and logarithmic functions. Systems of equations and applications. Trigonometric functions: angle and radian measure, graphs and applications.

0101	Daochen Wang MWF 10:00am - 10:50am	Seats (Total: 30) MTH B0427
0102	Xuesen Na MWF 10:00am - 10:50am	Seats (Total: 30) MTH 0304
0103	Christopher Dock MWF 10:00am - 10:50am	Seats (Total: 30) MTH 0407
0104	Ian Teixeira MWF 10:00am - 10:50am	Seats (Total: 30) MTH 0409
0201	Daochen Wang MWF 11:00am - 11:50am	Seats (Total: 30) MTH B0427
0202	Xuesen Na MWF 11:00am - 11:50am	Seats (Total: 30) MTH 0304
0203	Christopher Dock MWF 11:00am - 11:50am	Seats (Total: 30) MTH 0407
0204	Ian Teixeira MWF 11:00am - 11:50am	Seats (Total: 30) MTH 0409
0301	Dolly Hall MWF 3:00pm - 3:50pm	Seats (Total: 30) MTH B0427
0302	Kevin Dunlap MWF 3:00pm - 3:50pm	Seats (Total: 30) MTH 0105

0303	Brandon Alexander MWF 3:00pm - 3:50pm	Seats (Total: 30) MTH 0307
0401	Dolly Hall MWF 4:00pm - 4:50pm	Seats (Total: 30) MTH B0427
0402	Kevin Dunlap MWF 4:00pm - 4:50pm	Seats (Total: 30) MTH 0105
1101	Santuria Orsetti MTuWThF 9:00am - 9:50am	Seats (Total: 22) MTH 0402
1201	Santuria Orsetti MTuWThF 11:00am - 11:50am	Seats (Total: 22) MTH 0402
1301	Arthur Bruckheim MTuWThF 12:00pm - 12:50pm	Seats (Total: 22) MTH 0402
1401	Arthur Bruckheim MTuWThF 1:00pm - 1:50pm	Seats (Total: 22) MTH 0402
FC01	Jocelyn Menecio TuTh 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 33) CHM 2201
FC02	Ramon Braza TuTh 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 33) MTH 0103
FC03	Jocelyn Menecio TuTh 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 33) CHM 2201
FC04	Ramon Braza TuTh 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 33) MTH 0103
FC05	Darcy Conant MW 3:00pm - 4:15pm	Seats (Total: 33) ITV 1111

FC06	Brandon Alexander MW 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 33) MTH 0201	

MATH115 **Precalculus**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: FSMA

Prerequisite: Must have math eligibility of MATH115 or higher; and math eligibility is based on the Math Placement Exam or the successful completion of MATH003 with appropriate eligibility. Or MATH113. Restriction: Must not have completed MATH140; and must not have completed any MATH or STAT course with a prerequisite of MATH140. Credit only granted for: Students who have credits for MATH115 may not also receive credits for MATH112 or MATH113.

Preparation for MATH120, MATH130 or MATH140. Elementary functions and graphs: polynomials, rational functions, exponential and logarithmic functions, trigonometric functions. Algebraic techniques preparatory for calculus.

All sections will require the use of a TI graphics calculator. Instructor will use a TI-83 or a TI-83+,TI 84, TI 84+, TI 86, or TI 89 calculator.

0111	Raluca Rosca MWF 9:00am - 9:50am MWF 10:00am - 10:50am	Seats (Total: 29) ESJ 0202 PHY 4207	 Lab
0121	Raluca Rosca MWF 9:00am - 9:50am MWF 11:00am - 11:50am	Seats (Total: 29) ESJ 0202 PHY 4207	 Lab
0131	Raluca Rosca MWF 9:00am - 9:50am MWF 12:00pm - 12:50pm	Seats (Total: 29) ESJ 0202 PHY 4207	 Lab
0141	Raluca Rosca MWF 9:00am - 9:50am MWF 1:00pm - 1:50pm	Seats (Total: 29) ESJ 0202 PHY 4207	 Lab
0151	Raluca Rosca MWF 9:00am - 9:50am TuTh 8:00am - 9:15am	Seats (Total: 29) ESJ 0202 PHY 4207	 Lab

0161	Raluca Rosca MWF 9:00am - 9:50am TuTh 9:30am - 10:45am	Seats (Total: 29) ESJ 0202 PHY 4207	 Lab
0171	Raluca Rosca MWF 9:00am - 9:50am TuTh 11:00am - 12:15pm	Seats (Total: 29) ESJ 0202 PHY 4207	 Lab
0181	Raluca Rosca MWF 9:00am - 9:50am TuTh 12:30pm - 1:45pm	Seats (Total: 29) ESJ 0202 PHY 4207	 Lab
0191	Raluca Rosca MWF 9:00am - 9:50am MWF 2:00pm - 2:50pm	Seats (Total: 29) ESJ 0202 PHY 4207	 Discussion
0192	Raluca Rosca MWF 9:00am - 9:50am MWF 3:00pm - 3:50pm	Seats (Total: 29) ESJ 0202 PHY 4207	 Discussion
1101	Arthur Bruckheim MTuWThF 9:00am - 9:50am	Seats (Total: 22) ATL 1109	
1201	Sean Ballentine MTuWThF 11:00am - 11:50am	Seats (Total: 22) ATL 1109	
1301	Ben Bezejouh MTuWThF 12:00pm - 12:50pm	Seats (Total: 22) ATL 1109	
1401	Ben Bezejouh MTuWThF 1:00pm - 1:50pm	Seats (Total: 22) ATL 1109	
FC01	Sean Gruber MW 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 33) COL 3110	
FC02	William Schildknecht MW 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 33) MTH 0305	

FC03	Jocelyn Menecio MW 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 33) MMH 1304	
FC04	William Schildknecht MW 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 33) MTH 0304	

MATH120 **Elementary Calculus I**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: FSAR, FSMA

Prerequisite: 1 course with a minimum grade of C- from (MATH112, MATH113, MATH115). Or must have math eligibility of MATH120 or higher; and math eligibility is based on the Math Placement Test. Restriction: Not open to students majoring in mathematics, engineering, the biological sciences, biochemistry, chemistry, or the physical sciences. Credit only granted for: MATH120, MATH130, MATH136, MATH140, or MATH220. Formerly: MATH220.

Basic ideas of differential and integral calculus, with emphasis on elementary techniques of differentiation and applications.

0111	Samuel Bloom MWF 10:00am - 10:50am Th 8:00am - 8:50am	Seats (Total: 30) ARM 0131 MTH 0401	Discussion
0112	Samuel Bloom MWF 10:00am - 10:50am Th 8:00am - 8:50am	Seats (Total: 30) ARM 0131 MTH 0411	Discussion
0121	Samuel Bloom MWF 10:00am - 10:50am Th 9:30am - 10:20am	Seats (Total: 30) ARM 0131 MTH 0401	Discussion
0122	Samuel Bloom MWF 10:00am - 10:50am Th 9:30am - 10:20am	Seats (Total: 30) ARM 0131 MTH 0411	Discussion
0131	Samuel Bloom MWF 10:00am - 10:50am Th 11:00am - 11:50am	Seats (Total: 30) ARM 0131 MTH 0401	Discussion

0132	Samuel Bloom MWF 10:00am - 10:50am Th 11:00am - 11:50am	Seats (Total: 30) ARM 0131 MTH 0411	Discussion
0141	Samuel Bloom MWF 10:00am - 10:50am Th 12:30pm - 1:20pm	Seats (Total: 30) ARM 0131 MTH 0401	Discussion
0142	Samuel Bloom MWF 10:00am - 10:50am Th 12:30pm - 1:20pm	Seats (Total: 30) ARM 0131 MTH 0411	Discussion
0211	Timothy Pilachowski TuTh 9:30am - 10:45am W 8:00am - 8:50am	Seats (Total: 30) ARM 0126 MTH 0401	Discussion
0212	Timothy Pilachowski TuTh 9:30am - 10:45am W 9:00am - 9:50am	Seats (Total: 30) ARM 0126 MTH 0401	Discussion
0221	Timothy Pilachowski TuTh 9:30am - 10:45am W 12:00pm - 12:50pm	Seats (Total: 30) ARM 0126 MTH 0401	Discussion
0222	Timothy Pilachowski TuTh 9:30am - 10:45am W 12:00pm - 12:50pm	Seats (Total: 30) ARM 0126 MTH 0411	Discussion
0231	Timothy Pilachowski TuTh 9:30am - 10:45am W 1:00pm - 1:50pm	Seats (Total: 30) ARM 0126 MTH 0401	Discussion
0232	Timothy Pilachowski TuTh 9:30am - 10:45am W 1:00pm - 1:50pm	Seats (Total: 30) ARM 0126 MTH 0411	Discussion
0241	Timothy Pilachowski TuTh 9:30am - 10:45am W 2:00pm - 2:50pm	Seats (Total: 30) ARM 0126 MTH 0401	Discussion

0242	Timothy Pilachowski TuTh 9:30am - 10:45am W 3:00pm - 3:50pm	Seats (Total: 30) ARM 0126 MTH 0401	Discussion
0311	Lawrence Washington TuTh 11:00am - 12:15pm F 8:00am - 8:50am	Seats (Total: 20) ESJ 2208 ESJ 1309	Discussion
0321	Lawrence Washington TuTh 11:00am - 12:15pm F 9:00am - 9:50am	Seats (Total: 20) ESJ 2208 ESJ 1309	Discussion
0331	Lawrence Washington TuTh 11:00am - 12:15pm F 12:00pm - 12:50pm	Seats (Total: 21) ESJ 2208 ESJ 1309	Discussion
0332	Lawrence Washington TuTh 11:00am - 12:15pm F 12:00pm - 12:50pm	Seats (Total: 20) ESJ 2208 ESJ 1309	Discussion
0341	Lawrence Washington TuTh 11:00am - 12:15pm F 1:00pm - 1:50pm	Seats (Total: 20) ESJ 2208 ESJ 2212	Discussion
0342	Lawrence Washington TuTh 11:00am - 12:15pm F 1:00pm - 1:50pm	Seats (Total: 20) ESJ 2208 ESJ 2212	Discussion
0351	Lawrence Washington TuTh 11:00am - 12:15pm F 2:00pm - 2:50pm	Seats (Total: 20) ESJ 2208 ESJ 1309	Discussion
0361	Lawrence Washington TuTh 11:00am - 12:15pm F 3:00pm - 3:50pm	Seats (Total: 20) ESJ 2208 ESJ 1309	Discussion
0411	Samuel Bloom TuTh 12:30pm - 1:45pm M 8:00am - 8:50am	Seats (Total: 30) ARM 0135 MTH 0401	Discussion

0421	Samuel Bloom TuTh 12:30pm - 1:45pm M 9:00am - 9:50am	Seats (Total: 30) ARM 0135 MTH 0401	Discussion
0431	Samuel Bloom TuTh 12:30pm - 1:45pm M 12:00pm - 12:50pm	Seats (Total: 30) ARM 0135 MTH 0401	Discussion
0432	Samuel Bloom TuTh 12:30pm - 1:45pm M 12:00pm - 12:50pm	Seats (Total: 30) ARM 0135 MTH 0411	Discussion
0441	Samuel Bloom TuTh 12:30pm - 1:45pm M 1:00pm - 1:50pm	Seats (Total: 30) ARM 0135 MTH 0401	Discussion
0442	Samuel Bloom TuTh 12:30pm - 1:45pm M 1:00pm - 1:50pm	Seats (Total: 30) ARM 0135 MTH 0411	Discussion
0451	Samuel Bloom TuTh 12:30pm - 1:45pm M 2:00pm - 2:50pm	Seats (Total: 30) ARM 0135 MTH 0401	Discussion
0461	Samuel Bloom TuTh 12:30pm - 1:45pm M 3:00pm - 3:50pm	Seats (Total: 30) ARM 0135 MTH 0401	Discussion
FC01	Rufus Elemo MW 4:30pm - 5:45pm	Seats (Total: 35) MTH 0106	
FC02	Franck Olivier Ndjakou Njeunje MW 4:30pm - 5:45pm	Seats (Total: 34) MTH 0101	
FC03	Ben Bezejouh MW 6:00pm - 7:15pm	Seats (Total: 35) MTH 0106	
FC04	Franck Olivier Ndjakou Njeunje MW 6:00pm - 7:15pm	Seats (Total: 35) MTH 0201	

MATH121 Elementary Calculus II

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH120, MATH130, MATH136, or MATH140; or must have completed MATH220. Restriction: Not open to students majoring in mathematics, engineering, the biological sciences, biochemistry, chemistry, or the physical sciences. Credit only granted for: MATH121, MATH131, MATH141, or MATH221. Formerly: MATH 221.

Differential and integral calculus, with emphasis on elementary techniques of integration and applications.

0101	Jenny Rustad MWF 12:00pm - 12:50pm	Seats (Total: 22) MTH 1311	
0201	Jenny Rustad MWF 1:00pm - 1:50pm	Seats (Total: 22) MTH 1311	

MATH135 **Discrete Mathematics for Life Sciences**

Credits: 4

Grading Method: Regular, Pass-Fail, Audit

General Education: FSAR, FSMA

Prerequisite: Minimum grade of C- in MATH115; or must have math eligibility of MATH140 or higher; and math eligibility is based on the Math Placement Test. Restriction: Must be in a major in CMNS-Biological Sciences UG Program; and not open to students majoring in mathematics, engineering, or the physical sciences.

Basic discrete mathematics, with emphasis on relevant models and techniques to the life sciences.

0111	Casey Cremins TuTh 9:30am - 10:45am WF 8:00am - 8:50am	Seats (Total: 32) ARM 0131 MTH 0105	 Discussion
0112	Casey Cremins TuTh 9:30am - 10:45am WF 8:00am - 8:50am	Seats (Total: 32) ARM 0131 MTH 0305	 Discussion
0121	Casey Cremins TuTh 9:30am - 10:45am WF 9:00am - 9:50am	Seats (Total: 32) ARM 0131 MTH 0105	 Discussion
0122	Casey Cremins TuTh 9:30am - 10:45am WF 9:00am - 9:50am	Seats (Total: 32) ARM 0131 MTH 0305	 Discussion

0131	Casey Cremins TuTh 9:30am - 10:45am WF 10:00am - 10:50am	Seats (Total: 32) ARM 0131 MTH 0105	Discussion
0151	Casey Cremins TuTh 9:30am - 10:45am WF 12:00pm - 12:50pm	Seats (Total: 32) ARM 0131 MTH 0105	Discussion
0211	Heyrim Cho TuTh 11:00am - 12:15pm MW 8:00am - 8:50am	Seats (Total: 30) ARM 0135 MTH 0405	Discussion
0212	Heyrim Cho TuTh 11:00am - 12:15pm MW 8:00am - 8:50am	Seats (Total: 30) ARM 0135 MTH 0403	Discussion
0222	Heyrim Cho TuTh 11:00am - 12:15pm MW 9:00am - 9:50am	Seats (Total: 30) ARM 0135 MTH 0403	Discussion
0231	Heyrim Cho TuTh 11:00am - 12:15pm MW 11:00am - 11:50am	Seats (Total: 30) ARM 0135 MTH 0405	Discussion
0241	Heyrim Cho TuTh 11:00am - 12:15pm MW 12:00pm - 12:50pm	Seats (Total: 30) ARM 0135 MTH 0405	Discussion
0251	Heyrim Cho TuTh 11:00am - 12:15pm MW 1:00pm - 1:50pm	Seats (Total: 30) ARM 0135 MTH 0405	Discussion

MATH140 **Calculus I**

Credits: 4	Grading Method: Regular, Pass-Fail, Audit	CORE: MS	General Education: FSAR, FSMA

Prerequisite: Minimum grade of C- in MATH115. Or must have math eligibility of MATH140 or higher; and math eligibility is based on the Math Placement Test. Credit only granted for: MATH120, MATH130, MATH136, MATH140 or MATH220.

Introduction to calculus, including functions, limits, continuity, derivatives and applications of the derivative, sketching of graphs of functions, definite and indefinite integrals, and calculation of area. The course is especially recommended for science, engineering and mathematics majors.

All sections will require the use of a TI graphics calculator. Instructor will use a TI-83, TI-83+, TI 84, TI 84+, TI 86, or TI 89 calculator. Emphasis on student interaction in groups, including team approach to solving calculus based problems. There will be 3 one-hour lectures and 2 eighty-minute workshops each week with enhanced assistance and support for students.

0111	Denny Gulick MWF 8:00am - 8:50am TuTh 8:00am - 9:20am	Seats (Total: 25) PHY 1412 MTH 1308	Discussion
0112	Denny Gulick MWF 8:00am - 8:50am TuTh 8:00am - 9:20am	Seats (Total: 25) PHY 1412 MTH 1311	Discussion
0113	Denny Gulick MWF 8:00am - 8:50am TuTh 8:00am - 9:20am	Seats (Total: 25) PHY 1412 MTH 1313	Discussion
0121	Denny Gulick MWF 8:00am - 8:50am TuTh 9:30am - 10:50am	Seats (Total: 25) PHY 1412 MTH 1308	Discussion
0122	Denny Gulick MWF 8:00am - 8:50am TuTh 9:30am - 10:50am	Seats (Total: 25) PHY 1412 MTH 1311	Discussion
0123	Denny Gulick MWF 8:00am - 8:50am TuTh 9:30am - 10:50am	Seats (Total: 25) PHY 1412 MTH 1313	Discussion
0131	Denny Gulick MWF 8:00am - 8:50am TuTh 11:00am - 12:20pm	Seats (Total: 25) PHY 1412 MTH 1308	Discussion
0132	Denny Gulick MWF 8:00am - 8:50am TuTh 11:00am - 12:20pm	Seats (Total: 25) PHY 1412 MTH 1311	Discussion

0311	Fei Wang MWF 11:00am - 11:50am TuTh 11:00am - 12:20pm	Seats (Total: 25) ARM 0131 MTH 0409	Discussion
0312	Fei Wang MWF 11:00am - 11:50am TuTh 11:00am - 12:20pm	Seats (Total: 25) ARM 0131 MTH 0305	Discussion
0313	Fei Wang MWF 11:00am - 11:50am TuTh 11:00am - 12:20pm	Seats (Total: 25) ARM 0131 MTH 0407	Discussion
0321	Fei Wang MWF 11:00am - 11:50am TuTh 12:30pm - 1:50pm	Seats (Total: 25) ARM 0131 MTH 0409	Discussion
0322	Fei Wang MWF 11:00am - 11:50am TuTh 12:30pm - 1:50pm	Seats (Total: 25) ARM 0131 MTH 0305	Discussion
0323	Fei Wang MWF 11:00am - 11:50am TuTh 12:30pm - 1:50pm	Seats (Total: 25) ARM 0131 MTH 0407	Discussion
0331	Fei Wang MWF 11:00am - 11:50am TuTh 2:00pm - 3:20pm	Seats (Total: 25) ARM 0131 MTH 0409	Discussion
0332	Fei Wang MWF 11:00am - 11:50am TuTh 2:00pm - 3:20pm	Seats (Total: 25) ARM 0131 MTH 0305	Discussion
0411	Steven Chadwick MWF 2:00pm - 2:50pm TuTh 9:30am - 10:50am	Seats (Total: 25) ARM 0135 MTH 0102	Discussion
0412	Steven Chadwick MWF 2:00pm - 2:50pm TuTh 9:30am - 10:50am	Seats (Total: 25) ARM 0135 MTH 0105	Discussion

0413	Steven Chadwick MWF 2:00pm - 2:50pm TuTh 9:30am - 10:50am	Seats (Total: 25) ARM 0135 MTH 0302	Discussion
0421	Steven Chadwick MWF 2:00pm - 2:50pm TuTh 11:00am - 12:20pm	Seats (Total: 25) ARM 0135 MTH 0102	Discussion
0422	Steven Chadwick MWF 2:00pm - 2:50pm TuTh 11:00am - 12:20pm	Seats (Total: 25) ARM 0135 MTH 0105	Discussion
0423	Steven Chadwick MWF 2:00pm - 2:50pm TuTh 11:00am - 12:20pm	Seats (Total: 25) ARM 0135 MTH 0201	Discussion
0431	Steven Chadwick MWF 2:00pm - 2:50pm TuTh 2:00pm - 3:20pm	Seats (Total: 25) ARM 0135 MTH 0102	Discussion
0432	Steven Chadwick MWF 2:00pm - 2:50pm TuTh 2:00pm - 3:20pm	Seats (Total: 25) ARM 0135 MTH 0105	Discussion
0511	Nathaniael Manning MWF 12:00pm - 12:50pm TuTh 8:00am - 9:20am	Seats (Total: 25) ARM 0135 MTH 0101	Discussion
0512	Nathaniael Manning MWF 12:00pm - 12:50pm TuTh 8:00am - 9:20am	Seats (Total: 25) ARM 0135 MTH 0103	Discussion
0513	Nathaniael Manning MWF 12:00pm - 12:50pm TuTh 8:00am - 9:20am	Seats (Total: 25) ARM 0135 MTH 0305	Discussion
0521	Nathaniael Manning MWF 12:00pm - 12:50pm TuTh 9:30am - 10:50am	Seats (Total: 25) ARM 0135 MTH 0101	Discussion

0522	Nathaniael Manning MWF 12:00pm - 12:50pm TuTh 9:30am - 10:50am	Seats (Total: 25) ARM 0135 MTH 0103	Discussion
0523	Nathaniael Manning MWF 12:00pm - 12:50pm TuTh 9:30am - 10:50am	Seats (Total: 25) ARM 0135 MTH 0305	Discussion
0531	Nathaniael Manning MWF 12:00pm - 12:50pm TuTh 11:00am - 12:20pm	Seats (Total: 25) ARM 0135 MTH 0101	Discussion
0532	Nathaniael Manning MWF 12:00pm - 12:50pm TuTh 11:00am - 12:20pm	Seats (Total: 25) ARM 0135 MTH 0103	Discussion
0611	Timothy Pilachowski MWF 10:00am - 10:50am TuTh 11:00am - 12:20pm	Seats (Total: 25) ESJ 0202 ESJ 1215	Discussion
0612	Timothy Pilachowski MWF 10:00am - 10:50am TuTh 11:00am - 12:20pm	Seats (Total: 25) ESJ 0202 ESJ 1215	Discussion
0613	Timothy Pilachowski MWF 10:00am - 10:50am TuTh 11:00am - 12:20pm	Seats (Total: 25) ESJ 0202 ESJ 1215	Discussion
0621	Timothy Pilachowski MWF 10:00am - 10:50am TuTh 12:30pm - 1:50pm	Seats (Total: 25) ESJ 0202 ESJ 1215	Discussion
0622	Timothy Pilachowski MWF 10:00am - 10:50am TuTh 12:30pm - 1:50pm	Seats (Total: 25) ESJ 0202 ESJ 1215	Discussion
0623	Timothy Pilachowski MWF 10:00am - 10:50am TuTh 12:30pm - 1:50pm	Seats (Total: 25) ESJ 0202 ESJ 1215	Discussion

0631	Timothy Pilachowski MWF 10:00am - 10:50am TuTh 2:00pm - 3:20pm	Seats (Total: 25) ESJ 0202 ESJ 1215	Discussion
0632	Timothy Pilachowski MWF 10:00am - 10:50am TuTh 2:00pm - 3:20pm	Seats (Total: 25) ESJ 0202 ESJ 1215	Discussion
FC01	Changguang Dong MWTh 3:00pm - 4:15pm	Seats (Total: 34) MTH 0201	
FC02	Ke Xue MWTh 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 34) CHE 2118	
FC03	Mestiyage Gunatilleka MWTh 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 34) MTH 0103	
FC04	Adam Telatovich MWTh 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 34) MTH 0304	
FC05	Arijit Sehanobish MWTh 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 34) MTH 0101	
FC06	Craig Schlenoff MWTh 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 34) MTH 0306	
FC07	Rufus Elemo MWTh 6:00pm - 7:15pm	Seats (Total: 34) MTH 0304	

MATH140H **Calculus I**

Credits: 4	Grading Method: Regular, Pass-Fail, Audit	CORE: MS	General Education: FSAR, FSMA

Prerequisite: Minimum grade of C- in MATH115. Or must have math eligibility of MATH140 or higher; and math eligibility is based on the Math Placement Test. Credit only granted for: MATH120, MATH130, MATH136, MATH140 or MATH220.

Introduction to calculus, including functions, limits, continuity, derivatives and applications of the derivative, sketching of graphs of functions, definite and indefinite integrals, and calculation of area. The course is especially recommended for science, engineering and mathematics majors.

For general honors students only. Offered fall only. All sections will require the use of a TI graphics calculator. Instructor will use a TI-83 TI-83+, TI 84, TI 84+, TI 86, or TI 89 calculator.

0101	Steven Chadwick MF 10:00am - 10:50am W 10:00am - 11:50am	Seats (Total: 20) MTH 1313 MTH 1313	
0201	Xiumin Du WF 1:00pm - 1:50pm M 1:00pm - 2:50pm	Seats (Total: 20) MTH 0101 MTH 0101	

MATH141 **Calculus II**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | CORE: MS

Prerequisite: Minimum grade of C- in MATH140. Or 1 course with a minimum grade of B- from (MATH130, MATH136); and permission of CMNS-Mathematics department. Credit only granted for: MATH121, MATH131, MATH141, or MATH221.

Continuation of MATH140, including techniques of integration, improper integrals, applications of integration (such as volumes, work, arc length, moments), inverse functions, exponential and logarithmic functions, sequences and series.

All sections will require the use of a TI graphics calculator. Instructor will use a TI-83, TI-83+, TI 84, TI 84+, TI 86, or TI 89 calculator.

0111	Patrick Brosnan MWF 10:00am - 10:50am TuTh 8:00am - 8:50am	Seats (Total: 27) ARM 0126 MTH 0306	 Discussion
0112	Patrick Brosnan MWF 10:00am - 10:50am TuTh 8:00am - 8:50am	Seats (Total: 27) ARM 0126 MTH 0304	 Discussion

0121	Patrick Brosnan MWF 10:00am - 10:50am TuTh 9:00am - 9:50am	Seats (Total: 27) ARM 0126 MTH 0306	 Discussion
0122	Patrick Brosnan MWF 10:00am - 10:50am TuTh 9:00am - 9:50am	Seats (Total: 27) ARM 0126 MTH 0304	 Discussion
0131	Patrick Brosnan MWF 10:00am - 10:50am TuTh 10:00am - 10:50am	Seats (Total: 27) ARM 0126 MTH 0306	 Discussion
0132	Patrick Brosnan MWF 10:00am - 10:50am TuTh 10:00am - 10:50am	Seats (Total: 27) ARM 0126 MTH 0304	 Discussion
0141	Patrick Brosnan MWF 10:00am - 10:50am TuTh 11:00am - 11:50am	Seats (Total: 27) ARM 0126 MTH 0306	 Discussion
0142	Patrick Brosnan MWF 10:00am - 10:50am TuTh 11:00am - 11:50am	Seats (Total: 27) ARM 0126 MTH 0304	 Discussion
0211	Ruiwen Shu MWF 11:00am - 11:50am TuTh 8:00am - 8:50am	Seats (Total: 27) ARM 0135 MTH B0423	 Discussion
0212	Ruiwen Shu MWF 11:00am - 11:50am TuTh 8:00am - 8:50am	Seats (Total: 27) ARM 0135 MTH B0427	 Discussion
0221	Ruiwen Shu MWF 11:00am - 11:50am TuTh 9:00am - 9:50am	Seats (Total: 27) ARM 0135 MTH B0423	 Discussion
0222	Ruiwen Shu MWF 11:00am - 11:50am TuTh 9:00am - 9:50am	Seats (Total: 27) ARM 0135 MTH B0427	 Discussion

0231	Ruiwen Shu MWF 11:00am - 11:50am TuTh 10:00am - 10:50am	Seats (Total: 27) ARM 0135 MTH B0423	 Discussion
0241	Ruiwen Shu MWF 11:00am - 11:50am TuTh 11:00am - 11:50am	Seats (Total: 27) ARM 0135 MTH B0423	 Discussion
0251	Ruiwen Shu MWF 11:00am - 11:50am TuTh 12:00pm - 12:50pm	Seats (Total: 27) ARM 0135 MTH B0423	 Discussion
0261	Ruiwen Shu MWF 11:00am - 11:50am TuTh 1:00pm - 1:50pm	Seats (Total: 27) ARM 0135 MTH B0423	 Discussion
0311	Bradford Sanders MWF 1:00pm - 1:50pm TuTh 12:00pm - 12:50pm	Seats (Total: 27) ARM 0131 MTH 0306	 Discussion
0312	Bradford Sanders MWF 1:00pm - 1:50pm TuTh 12:00pm - 12:50pm	Seats (Total: 27) ARM 0131 MTH 0304	 Discussion
0321	Bradford Sanders MWF 1:00pm - 1:50pm TuTh 1:00pm - 1:50pm	Seats (Total: 27) ARM 0131 MTH 0306	 Discussion
0322	Bradford Sanders MWF 1:00pm - 1:50pm TuTh 1:00pm - 1:50pm	Seats (Total: 27) ARM 0131 MTH 0304	 Discussion
0331	Bradford Sanders MWF 1:00pm - 1:50pm TuTh 2:00pm - 2:50pm	Seats (Total: 27) ARM 0131 MTH 0306	 Discussion
0332	Bradford Sanders MWF 1:00pm - 1:50pm TuTh 2:00pm - 2:50pm	Seats (Total: 27) ARM 0131 MTH 0304	 Discussion

0341	Bradford Sanders MWF 1:00pm - 1:50pm TuTh 3:00pm - 3:50pm	Seats (Total: 27) ARM 0131 MTH 0306	Discussion
0342	Bradford Sanders MWF 1:00pm - 1:50pm TuTh 3:00pm - 3:50pm	Seats (Total: 27) ARM 0131 MTH 0403	Discussion
0411	Bradford Sanders MWF 3:00pm - 3:50pm TuTh 11:00am - 11:50am	Seats (Total: 27) ARM 0126 MTH B0425	Discussion
0421	Bradford Sanders MWF 3:00pm - 3:50pm TuTh 12:00pm - 12:50pm	Seats (Total: 27) ARM 0126 MTH B0425	Discussion
0431	Bradford Sanders MWF 3:00pm - 3:50pm TuTh 1:00pm - 1:50pm	Seats (Total: 27) ARM 0126 MTH B0425	Discussion
0441	Bradford Sanders MWF 3:00pm - 3:50pm TuTh 2:00pm - 2:50pm	Seats (Total: 27) ARM 0126 MTH 0103	Discussion
FC01	Terence Long MWTh 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 30) MTH 0405	
FC02	Maxx Cho MWTh 3:00pm - 4:15pm *Restricted to students in Freshman Connection.*	Seats (Total: 30) MTH B0423	
FC03	Terence Long MWTh 4:30pm - 5:45pm	Seats (Total: 30) MTH 0403	

MATH141H **Calculus II**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | CORE: MS

Prerequisite: Minimum grade of C- in MATH140. Or 1 course with a minimum grade of B- from (MATH130, MATH136); and permission of CMNS-Mathematics department. Credit only granted for: MATH121, MATH131, MATH141, or MATH221.

Continuation of MATH140, including techniques of integration, improper integrals, applications of integration (such as volumes, work, arc length, moments), inverse functions, exponential and logarithmic functions, sequences and series.

For general honors students only. TI graphics calculator required. Instructor will use a TI-83, TI-83+, TI 84, TI 84+, TI 86, or TI 89 calculator.

0101	Wiseley Wong	Seats (Total: 20)
	WF 10:00am - 10:50am	MTH 0306
	M 10:00am - 11:50am	MTH 0306
0201	Nathaniael Manning	Seats (Total: 20)
	MF 2:00pm - 2:50pm	MTH 0306
	W 2:00pm - 3:50pm	MTH 0306

MATH206 **Introduction to Matlab**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH136, MATH140). Credit only granted for: CMSC206, CMSC298M, MATH206, or MATH299M.

This course is intended to prepare students for subsequent courses requiring computation with MATLAB. Covers basics of MATLAB including simple commands, variables, solving equations, graphing differentiation and integration, matrices and vectors, functions, M-files and fundamentals of programming in the MATLAB environment. When offered in Winter and Summer terms, the course is offered in a format suitable for online distance learning.

0101	Justin Wyss-Gallifent	Seats (Total: 430)
	Meets August 27, 2018 - October 10, 2018	
	Class time/details on ELMs	ONLINE

MATH212 **Elements of Numbers and Operations**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have completed one year of college preparatory algebra. Restriction: Must be in one of the following programs (Early Childhood Education; Special Education; Elementary Education). Credit only granted for: MATH212 or MATH210.

Reviews and extends topics of arithmetic and number theory related to the elementary school curriculum, particularly number systems and operations with natural numbers, integers, and rationals.

0201	Diana Bowen MWF 10:00am - 10:50am	Seats (Total: 22) MTH 0102
0501	Diana Bowen MWF 2:00pm - 2:50pm	Seats (Total: 22) MTH 0102

MATH213 **Elements of Geometry and Measurement**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MATH212. Restriction: Must be in one of the following programs (Early Childhood Education; Special Education; Elementary Education). Credit only granted for: MATH211 or MATH213.

Properties of geometric objects in two and three dimensions; parallel lines, curves and polygons; ratio, proportion, similarity; transformational geometry and measurement, constructions, justifications and proofs.

0101	Alexis Boleda MWF 9:00am - 9:50am	Seats (Total: 25) MTH B0425
0201	Alexis Boleda MWF 10:00am - 10:50am	Seats (Total: 28) MTH B0425

MATH214 **Elements of Probability and Statistics**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MATH212. Restriction: Must be in one of the following programs (Early Childhood Education; Special Education; Elementary Education). Credit only granted for: MATH211 or MATH214.

Permutations and combinations; probability; collecting and representing data; using statistics to analyze and interpret data.

0201	William Viviani MWF 9:00am - 9:50am	Seats (Total: 25) HBK 0105

MATH240 **Introduction to Linear Algebra**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH131, MATH141). Credit only granted for: MATH240, MATH341, or MATH461.

Basic concepts of linear algebra: vector spaces, applications to line and plane geometry, linear equations and matrices, similar matrices, linear transformations, eigenvalues, determinants and quadratic forms.

0111	Allan Yashinski MWF 1:00pm - 1:50pm TuTh 12:00pm - 12:50pm	Seats (Total: 30) ARM 0126 MTH B0427	Discussion
0112	Allan Yashinski MWF 1:00pm - 1:50pm TuTh 12:00pm - 12:50pm	Seats (Total: 29) ARM 0126 BPS 1234	Discussion
0121	Allan Yashinski MWF 1:00pm - 1:50pm TuTh 1:00pm - 1:50pm	Seats (Total: 30) ARM 0126 MTH B0427	Discussion
0122	Allan Yashinski MWF 1:00pm - 1:50pm TuTh 1:00pm - 1:50pm	Seats (Total: 28) ARM 0126 BPS 1234	Discussion
0131	Allan Yashinski MWF 1:00pm - 1:50pm TuTh 2:00pm - 2:50pm	Seats (Total: 30) ARM 0126 MTH B0427	Discussion
0132	Allan Yashinski MWF 1:00pm - 1:50pm TuTh 2:00pm - 2:50pm	Seats (Total: 30) ARM 0126 MTH 0407	Discussion
0141	Allan Yashinski MWF 1:00pm - 1:50pm TuTh 3:00pm - 3:50pm	Seats (Total: 30) ARM 0126 MTH B0427	Discussion
0142	Allan Yashinski MWF 1:00pm - 1:50pm TuTh 3:00pm - 3:50pm	Seats (Total: 30) ARM 0126 MTH 0407	Discussion
0211	Alex Blumenthal MWF 2:00pm - 2:50pm TuTh 12:00pm - 12:50pm	Seats (Total: 30) ARM 0126 MTH B0429	Discussion

0212	Alex Blumenthal MWF 2:00pm - 2:50pm TuTh 12:00pm - 12:50pm	Seats (Total: 30) ARM 0126 MTH 0307	Discussion
0221	Alex Blumenthal MWF 2:00pm - 2:50pm TuTh 1:00pm - 1:50pm	Seats (Total: 30) ARM 0126 MTH B0429	Discussion
0222	Alex Blumenthal MWF 2:00pm - 2:50pm TuTh 1:00pm - 1:50pm	Seats (Total: 30) ARM 0126 MTH 0307	Discussion
0231	Alex Blumenthal MWF 2:00pm - 2:50pm TuTh 2:00pm - 2:50pm	Seats (Total: 30) ARM 0126 MTH B0429	Discussion
0232	Alex Blumenthal MWF 2:00pm - 2:50pm TuTh 2:00pm - 2:50pm	Seats (Total: 28) ARM 0126 ATL 1109	Discussion
0241	Alex Blumenthal MWF 2:00pm - 2:50pm TuTh 3:00pm - 3:50pm	Seats (Total: 30) ARM 0126 MTH B0429	Discussion
0242	Alex Blumenthal MWF 2:00pm - 2:50pm TuTh 3:00pm - 3:50pm	Seats (Total: 28) ARM 0126 ATL 1109	Discussion
0311	Thibaut Castan MWF 1:00pm - 1:50pm TuTh 11:00am - 11:50am	Seats (Total: 26) HJP 0226 MTH 0104	Discussion
0312	Thibaut Castan MWF 1:00pm - 1:50pm TuTh 11:00am - 11:50am	Seats (Total: 30) HJP 0226 MTH 1313	Discussion
0321	Thibaut Castan MWF 1:00pm - 1:50pm TuTh 12:00pm - 12:50pm	Seats (Total: 26) HJP 0226 MTH 0104	Discussion

0322	Thibaut Castan MWF 1:00pm - 1:50pm TuTh 12:00pm - 12:50pm	Seats (Total: 30) HJP 0226 MTH 1313	Discussion
0332	Thibaut Castan MWF 1:00pm - 1:50pm TuTh 1:00pm - 1:50pm	Seats (Total: 30) HJP 0226 MTH 1313	Discussion
0342	Thibaut Castan MWF 1:00pm - 1:50pm TuTh 2:00pm - 2:50pm	Seats (Total: 28) HJP 0226 EGR 1104	Discussion

MATH241 **Calculus III**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in MATH141. Credit only granted for: MATH241 or MATH340.

Introduction to multivariable calculus, including vectors and vector-valued functions, partial derivatives and applications of partial derivatives (such as tangent planes and Lagrange multipliers), multiple integrals, volume, surface area, and the classical theorems of Green, Stokes and Gauss.

All sections will use MATLAB.

0111	Kendall Williams MWF 9:00am - 9:50am TuTh 8:00am - 8:50am	Seats (Total: 29) ESJ 0224 MTH 0405	Discussion
0112	Kendall Williams MWF 9:00am - 9:50am TuTh 8:00am - 8:50am	Seats (Total: 29) ESJ 0224 MTH B0429	Discussion
0121	Kendall Williams MWF 9:00am - 9:50am TuTh 9:00am - 9:50am	Seats (Total: 29) ESJ 0224 MTH 0405	Discussion
0122	Kendall Williams MWF 9:00am - 9:50am TuTh 9:00am - 9:50am	Seats (Total: 29) ESJ 0224 MTH B0429	Discussion

0131	Kendall Williams MWF 9:00am - 9:50am TuTh 10:00am - 10:50am	Seats (Total: 29) ESJ 0224 MTH 0405	Discussion
0132	Kendall Williams MWF 9:00am - 9:50am TuTh 10:00am - 10:50am	Seats (Total: 29) ESJ 0224 MTH B0429	Discussion
0141	Kendall Williams MWF 9:00am - 9:50am TuTh 11:00am - 11:50am	Seats (Total: 29) ESJ 0224 MTH 0405	Discussion
0142	Kendall Williams MWF 9:00am - 9:50am TuTh 11:00am - 11:50am	Seats (Total: 29) ESJ 0224 MTH B0429	Discussion
0211	Terence Long MWF 11:00am - 11:50am TuTh 8:00am - 8:50am	Seats (Total: 29) ARM 0126 MTH 0307	Discussion
0212	Terence Long MWF 11:00am - 11:50am TuTh 8:00am - 8:50am	Seats (Total: 29) ARM 0126 MTH 0303	Discussion
0221	Terence Long MWF 11:00am - 11:50am TuTh 9:00am - 9:50am	Seats (Total: 29) ARM 0126 MTH 0307	Discussion
0222	Terence Long MWF 11:00am - 11:50am TuTh 9:00am - 9:50am	Seats (Total: 29) ARM 0126 MTH 0303	Discussion
0231	Terence Long MWF 11:00am - 11:50am TuTh 10:00am - 10:50am	Seats (Total: 29) ARM 0126 MTH 0307	Discussion
0232	Terence Long MWF 11:00am - 11:50am TuTh 10:00am - 10:50am	Seats (Total: 29) ARM 0126 MTH 0303	Discussion

0241	Terence Long MWF 11:00am - 11:50am TuTh 12:00pm - 12:50pm	Seats (Total: 29) ARM 0126 MTH 0302	Discussion
0242	Terence Long MWF 11:00am - 11:50am TuTh 12:00pm - 12:50pm	Seats (Total: 28) ARM 0126 CHE 2145	Discussion
0311	Justin Wyss-Gallifent MWF 12:00pm - 12:50pm TuTh 10:00am - 10:50am	Seats (Total: 29) ARM 0126 MTH 0402	Discussion
0312	Justin Wyss-Gallifent MWF 12:00pm - 12:50pm TuTh 10:00am - 10:50am	Seats (Total: 29) ARM 0126 ATL 2330	Discussion
0321	Justin Wyss-Gallifent MWF 12:00pm - 12:50pm TuTh 11:00am - 11:50am	Seats (Total: 29) ARM 0126 MTH 0106	Discussion
0322	Justin Wyss-Gallifent MWF 12:00pm - 12:50pm TuTh 11:00am - 11:50am	Seats (Total: 29) ARM 0126 ATL 2330	Discussion
0331	Justin Wyss-Gallifent MWF 12:00pm - 12:50pm TuTh 12:00pm - 12:50pm	Seats (Total: 27) ARM 0126 MTH 0106	Discussion
0332	Justin Wyss-Gallifent MWF 12:00pm - 12:50pm TuTh 12:00pm - 12:50pm	Seats (Total: 29) ARM 0126 EGR 0135	Discussion
0341	Justin Wyss-Gallifent MWF 12:00pm - 12:50pm TuTh 1:00pm - 1:50pm	Seats (Total: 29) ARM 0126 MTH 0106	Discussion
0342	Justin Wyss-Gallifent MWF 12:00pm - 12:50pm TuTh 1:00pm - 1:50pm	Seats (Total: 28) ARM 0126 CHE 2145	Discussion

0411	David Hamilton MWF 1:00pm - 1:50pm TuTh 8:00am - 8:50am	Seats (Total: 29) ARM 0135 MTH 0201	Discussion
0412	David Hamilton MWF 1:00pm - 1:50pm TuTh 8:00am - 8:50am	Seats (Total: 29) ARM 0135 MTH 0106	Discussion
0421	David Hamilton MWF 1:00pm - 1:50pm TuTh 9:00am - 9:50am	Seats (Total: 29) ARM 0135 MTH 0201	Discussion
0422	David Hamilton MWF 1:00pm - 1:50pm TuTh 9:00am - 9:50am	Seats (Total: 29) ARM 0135 MTH 0106	Discussion
0431	David Hamilton MWF 1:00pm - 1:50pm TuTh 10:00am - 10:50am	Seats (Total: 29) ARM 0135 MTH 0201	Discussion
0441	David Hamilton MWF 1:00pm - 1:50pm TuTh 11:00am - 11:50am	Seats (Total: 29) ARM 0135 MTH 0302	Discussion
0511	Roohollah Ebrahimian MWF 2:00pm - 2:50pm TuTh 8:00am - 8:50am	Seats (Total: 29) ARM 0131 MTH 0407	Discussion
0512	Roohollah Ebrahimian MWF 2:00pm - 2:50pm TuTh 8:00am - 8:50am	Seats (Total: 29) ARM 0131 MTH 0409	Discussion
0521	Roohollah Ebrahimian MWF 2:00pm - 2:50pm TuTh 9:00am - 9:50am	Seats (Total: 27) ARM 0131 MTH 0407	Discussion
0522	Roohollah Ebrahimian MWF 2:00pm - 2:50pm TuTh 9:00am - 9:50am	Seats (Total: 29) ARM 0131 MTH 0409	Discussion

0531	Roohollah Ebrahimian MWF 2:00pm - 2:50pm TuTh 10:00am - 10:50am	Seats (Total: 29) ARM 0131 MTH 0407	Discussion
0532	Roohollah Ebrahimian MWF 2:00pm - 2:50pm TuTh 10:00am - 10:50am	Seats (Total: 29) ARM 0131 MTH B0427	Discussion
0541	Roohollah Ebrahimian MWF 2:00pm - 2:50pm TuTh 11:00am - 11:50am	Seats (Total: 29) ARM 0131 MTH 0403	Discussion
0542	Roohollah Ebrahimian MWF 2:00pm - 2:50pm TuTh 11:00am - 11:50am	Seats (Total: 29) ARM 0131 MTH B0427	Discussion

MATH241H **Calculus III**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in MATH141. Credit only granted for: MATH241 or MATH340.

Introduction to multivariable calculus, including vectors and vector-valued functions, partial derivatives and applications of partial derivatives (such as tangent planes and Lagrange multipliers), multiple integrals, volume, surface area, and the classical theorems of Green, Stokes and Gauss.

For general honors students only. MATH241H will use MATLAB.

0101	Jonathan Rosenberg MF 10:00am - 10:50am W 10:00am - 11:50am	Seats (Total: 30) MTH 0106 MTH 0106	
0201	Kendall Williams MF 11:00am - 11:50am W 11:00am - 12:50pm	Seats (Total: 30) MTH 0103 MTH 0103	
0301	Dong Dong MF 2:00pm - 2:50pm W 2:00pm - 3:50pm	Seats (Total: 25) MTH 0407 MTH 0407	

0401	Raluca Rosca MF 1:00pm - 1:50pm W 1:00pm - 2:50pm	Seats (Total: 25) MTH 0201 MTH 0201	

MATH246 **Differential Equations for Scientists and Engineers**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in MATH141. Credit only granted for: MATH246 or MATH341.

An introduction to the basic methods of solving ordinary differential equations. Equations of first and second order, linear differential equations, Laplace transforms, numerical methods and the qualitative theory of differential equations.

All sections will use MATLAB.

0111	Jeffrey Adams MWF 9:00am - 9:50am Tu 8:00am - 8:50am	Seats (Total: 22) ARM 0126 MTH 0401	Discussion
0112	Jeffrey Adams MWF 9:00am - 9:50am Tu 8:00am - 8:50am	Seats (Total: 22) ARM 0126 MTH 0411	Discussion
0121	Jeffrey Adams MWF 9:00am - 9:50am Tu 9:00am - 9:50am	Seats (Total: 22) ARM 0126 MTH 0401	Discussion
0122	Jeffrey Adams MWF 9:00am - 9:50am Tu 9:00am - 9:50am	Seats (Total: 22) ARM 0126 MTH 0411	Discussion
0131	Jeffrey Adams MWF 9:00am - 9:50am Tu 11:00am - 11:50am	Seats (Total: 22) ARM 0126 MTH 0401	Discussion
0132	Jeffrey Adams MWF 9:00am - 9:50am Tu 11:00am - 11:50am	Seats (Total: 22) ARM 0126 MTH 0411	Discussion

0141	Jeffrey Adams MWF 9:00am - 9:50am Tu 12:00pm - 12:50pm	Seats (Total: 22) ARM 0126 MTH 0401	Discussion
0142	Jeffrey Adams MWF 9:00am - 9:50am Tu 12:00pm - 12:50pm	Seats (Total: 22) ARM 0126 MTH 0411	Discussion
0311	Michael Jakobson TuTh 12:30pm - 1:45pm F 8:00am - 8:50am	Seats (Total: 20) ARM 0131 MTH 1308	Discussion
0321	Michael Jakobson TuTh 12:30pm - 1:45pm F 9:00am - 9:50am	Seats (Total: 20) ARM 0131 MTH 1308	Discussion
0331	Michael Jakobson TuTh 12:30pm - 1:45pm F 10:00am - 10:50am	Seats (Total: 20) ARM 0131 MTH 1308	Discussion
0341	Michael Jakobson TuTh 12:30pm - 1:45pm F 11:00am - 11:50am	Seats (Total: 20) ARM 0131 MTH 1308	Discussion
0342	Michael Jakobson TuTh 12:30pm - 1:45pm F 11:00am - 11:50am	Seats (Total: 20) ARM 0131 MTH 0302	Discussion
0411	Antoine Mellet TuTh 2:00pm - 3:15pm M 8:00am - 8:50am	Seats (Total: 22) ARM 0135 MTH 1308	Discussion
0412	Antoine Mellet TuTh 2:00pm - 3:15pm M 8:00am - 8:50am	Seats (Total: 22) ARM 0135 MTH 0302	Discussion
0421	Antoine Mellet TuTh 2:00pm - 3:15pm M 9:00am - 9:50am	Seats (Total: 22) ARM 0135 MTH 1308	Discussion

0422	Antoine Mellet TuTh 2:00pm - 3:15pm M 9:00am - 9:50am	Seats (Total: 22) ARM 0135 MTH 0302	Discussion
0431	Antoine Mellet TuTh 2:00pm - 3:15pm M 11:00am - 11:50am	Seats (Total: 22) ARM 0135 MTH 1308	Discussion
0432	Antoine Mellet TuTh 2:00pm - 3:15pm M 11:00am - 11:50am	Seats (Total: 22) ARM 0135 MTH 0302	Discussion
0441	Antoine Mellet TuTh 2:00pm - 3:15pm M 12:00pm - 12:50pm	Seats (Total: 22) ARM 0135 MTH 1308	Discussion
0442	Antoine Mellet TuTh 2:00pm - 3:15pm M 12:00pm - 12:50pm	Seats (Total: 22) ARM 0135 MTH 0302	Discussion
0511	Charles Levermore TuTh 9:30am - 10:45am W 8:00am - 8:50am	Seats (Total: 24) ESJ 1224 ESJ 1215	Discussion
0512	Charles Levermore TuTh 9:30am - 10:45am W 8:00am - 8:50am	Seats (Total: 24) ESJ 1224 ESJ 1215	Discussion
0521	Charles Levermore TuTh 9:30am - 10:45am W 9:00am - 9:50am	Seats (Total: 24) ESJ 1224 ESJ 1215	Discussion
0522	Charles Levermore TuTh 9:30am - 10:45am W 9:00am - 9:50am	Seats (Total: 24) ESJ 1224 ESJ 1215	Discussion
0531	Charles Levermore TuTh 9:30am - 10:45am W 10:00am - 10:50am	Seats (Total: 24) ESJ 1224 ESJ 1215	Discussion

0532	Charles Levermore TuTh 9:30am - 10:45am W 10:00am - 10:50am	Seats (Total: 24) ESJ 1224 ESJ 1215	 Discussion
0601	Alice Wang TuTh 9:30am - 10:45am	Seats (Total: 22) ATL 2316	

MATH246H **Differential Equations for Scientists and Engineers**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in MATH141. Credit only granted for: MATH246 or MATH341.

An introduction to the basic methods of solving ordinary differential equations. Equations of first and second order, linear differential equations, Laplace transforms, numerical methods and the qualitative theory of differential equations.

For general honors students only. MATH241H will use MATLAB.

0101	Christian Zickert TuTh 12:30pm - 1:45pm	Seats (Total: 33) MTH B0421

MATH299A **Selected Topics in Mathematics; Special Topics in Study Abroad II: Introduction to Mathematical Computing**

Credits: 3 Grading Method: Regular

Topics of special interest under the general guidance of the departmental committee on undergraduate studies.

Contact department for information to register for this course.

MATH299B **Selected Topics in Mathematics; Putnam Express**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Topics of special interest under the general guidance of the departmental committee on undergraduate studies.

0101	Roohollah Ebrahimian W 4:00pm - 5:30pm	Seats (Total: 22) MTH 0102

MATH299C **Selected Topics in Mathematics; Mathematics & Classical Music**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Topics of special interest under the general guidance of the departmental committee on undergraduate studies.

0101	Niranjan Ramachandran F 12:00pm - 12:50pm	Seats (Total: 20) MTH 0103

MATH299M **Selected Topics in Mathematics; Visualization through Mathematica**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Topics of special interest under the general guidance of the departmental committee on undergraduate studies.

Prerequisites: MATH140 and MATH141 (or equivalent). Also offered as CMSC389W. Credit only granted for CMSC389W or MATH299M.

0101	William Goldman F 2:00pm - 2:50pm	Seats (Total: 20) EGR 1104

MATH299P **Selected Topics in Mathematics; Proofs from The Book**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Topics of special interest under the general guidance of the departmental committee on undergraduate studies.

0101	Lawrence Washington F 1:00pm - 1:50pm	Seats (Total: 20) MTH 0407

MATH310 **Introduction to Mathematical Proof**

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in MATH141; and must have completed or be concurrently enrolled in MATH240, MATH341, or MATH461; and must have completed or be concurrently enrolled in MATH241 or MATH340. Restriction: Must be in a major within the CMNS-Mathematics department. Credit only granted for: MATH307 or MATH310. Additional information: Math majors may not use this course to satisfy an upper-level requirement.

To develop the students' ability to construct a rigorous proof of a mathematical claim. Students will also be made aware of mathematical results that are of interest to those wishing to analyze a particular mathematical model. Topics will be drawn from logic, set theory, structure of the number line, elementary topology, metric spaces, functions, sequences and continuity.

0101	Kathryn Truman MWF 10:00am - 10:50am	Seats (Total: 33) MTH 0303
0201	Nathaniael Manning MWF 11:00am - 11:50am	Seats (Total: 33) MTH 0303
0301	Terence Long MWF 1:00pm - 1:50pm	Seats (Total: 33) AJC 2119
0401	Kendall Williams MWF 2:00pm - 2:50pm	Seats (Total: 33) MTH 0303

MATH314 **Introduction to Probability, Data, Analysis and Statistics for Preservice Middle School Teachers**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH214. Restriction: Must be in one of the following programs (Elementary Education; Special Education; Middle School Education). Credit only granted for: MATH314 or STAT100.

Analysis of bivariate data, probability and randomness, law of large numbers, central limit theorem, probabilities for independent and dependent events, counting techniques, random variables and probability distributions, expected values, sampling distributions, and confidence intervals.

0101	William Viviani TuTh 2:00pm - 3:15pm	Seats (Total: 20) ASY 3217

MATH315 **Algebra for Preservice Middle School Teachers**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH212. Restriction: Must be in one of the following programs (Elementary Education; Special Education; Middle School Education). Credit only granted for: MATH112, MATH113, or MATH315.

Algebraic concepts and techniques developed in the middle grades, with their larger mathematical context. Equations, inequalities and functions (linear, polynomial, exponential, logarithmic), with multiple representations of relationships. Common misconceptions of beginning algebra students.

0101	Carolina Napp-Avelli MW 2:00pm - 3:15pm	Seats (Total: 25) EDU 2212

MATH340 **Multivariable Calculus, Linear Algebra and Differential Equations I (Honors)**

(Perm req)

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH141 and MATH140; and permission of CMNS-Mathematics department; and permission will be granted only to incoming freshmen. Credit only granted for: MATH241 or MATH340.

First semester of the MATH340-341 sequence which gives a unified and enriched treatment of multivariable calculus, linear algebra and ordinary differential equations, with supplementary material from subjects such as differential geometry, Fourier series and calculus of variations. Students completing MATH340-341 will have covered the material of MATH240, MATH241, and MATH246, and may not also receive credit for MATH240, MATH241 or MATH246.

0101	Niranjan Ramachandran MWF 9:00am - 10:15am	Seats (Total: 35) MTH B0421
0201	Wiseley Wong MWF 2:00pm - 3:15pm	Seats (Total: 35) MTH B0421

MATH386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Prerequisite: Must have learning proposal approved by the CMNS Mathematics Department.

Contact department for information to register for this course.

MATH401 **Applications of Linear Algebra**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH461, MATH240, MATH341).

Various applications of linear algebra: theory of finite games, linear programming, matrix methods as applied to finite Markov chains, random walk, incidence matrices, graphs and directed graphs, networks and transportation problems.

0101	Jeffrey Adams MWF 10:00am - 10:50am	Seats (Total: 28) MTH 0405

0201	Justin Wyss-Gallifent MWF 2:00pm - 2:50pm	Seats (Total: 32) CHM 0128
0301	Allan Yashinski MWF 3:00pm - 3:50pm	Seats (Total: 29) MTH 0302
0401	Michael Jakobson TuTh 9:30am - 10:45am	Seats (Total: 28) MTH B0425
0501	Samuel Braunfeld MWF 1:00pm - 1:50pm	Seats (Total: 33) ITV 1100
0601	Jan Peszek MWF 10:00am - 10:50am	Seats (Total: 28) MTH B0423

MATH402 **Algebraic Structures**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH240, MATH341, MATH461). Restriction: Must not be in any of the following programs (Mathematics (Master's); Mathematics (Doctoral)). Credit only granted for: MATH402 or MATH403.

For students having only limited experience with rigorous mathematical proofs. Parallels MATH403. Students planning graduate work in mathematics should take MATH403. Groups, rings, integral domains and fields, detailed study of several groups; properties of integers and polynomials. Emphasis is on the origin of the mathematical ideas studied and the logical structure of the subject.

0101	Steven Chadwick MWF 12:00pm - 12:50pm	Seats (Total: 17) MTH 0106

MATH403 **Introduction to Abstract Algebra**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH240, MATH461, MATH340); and 1 course with a minimum grade of C- from (MATH341, MATH241); and minimum grade of C- in MATH310. Or students who have taken courses with comparable content may contact the department. Credit only granted for: MATH402 or MATH403.

Integers; groups, rings, integral domains, fields.

0101	James Schafer TuTh 12:30pm - 1:45pm	Seats (Total: 30) MTH 0105
0201	Christian Zickert TuTh 9:30am - 10:45am	Seats (Total: 25) CHM 0127

MATH405 **Linear Algebra**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH240, MATH461, MATH341); and minimum grade of C- in MATH310.

An abstract treatment of finite dimensional vector spaces. Linear transformations and their invariants.

0101	Patrick Brosnan MWF 12:00pm - 12:50pm	Seats (Total: 30) MTH 0101

MATH406 **Introduction to Number Theory**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH240, MATH241, MATH246, MATH340, MATH341, MATH461); or permission of CMNS-Mathematics department.

Integers, divisibility, prime numbers, unique factorization, congruences, quadratic reciprocity, Diophantine equations and arithmetic functions.

0101	Yanir Rubinstein MWF 12:00pm - 12:50pm	Seats (Total: 28) MTH 0307
0201	Antoine Mellet TuTh 11:00am - 12:15pm	Seats (Total: 30) JMP 2202
0301	Lawrence Washington TuTh 2:00pm - 3:15pm	Seats (Total: 39) MTH B0421

MATH410 **Advanced Calculus I**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH240, MATH461, MATH341); and 1 course with a minimum grade of C- from (MATH340, MATH241); and minimum grade of C- in MATH310. Or students who have taken courses with comparable content may contact the department.

First semester of a year course. Subjects covered during the year are: sequences and series of numbers, continuity and differentiability of real valued functions of one variable, the Riemann integral, sequences of functions and power series. Functions of several variables including partial derivatives, multiple integrals, line and surface integrals. The implicit function theorem.

0101	Denny Gulick MWF 10:00am - 10:50am	Seats (Total: 32) MTH 0201
0201	Charles Levermore MWF 11:00am - 11:50am	Seats (Total: 32) MTH 0101
0301	David Hamilton MWF 3:00pm - 3:50pm	Seats (Total: 28) MTH 0409
0401	Casey Cremins MWF 12:00pm - 12:50pm	Seats (Total: 25) MTH 0104
0501	Manoussos Grillakis TuTh 11:00am - 12:15pm	Seats (Total: 30) MTH B0421
0601	Peter Nandori MWF 1:00pm - 1:50pm	Seats (Total: 30) MTH 0307

MATH411 **Advanced Calculus II**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in MATH410; and permission of CMNS-Mathematics department. Credit only granted for: MATH411 or MATH412.

Continuation of MATH410.

0101	Leonid Koralov MWF 11:00am - 11:50am	Seats (Total: 29) MTH B0421
0201	Matei Machedon MWF 10:00am - 10:50am	Seats (Total: 29) MTH 0401

MATH416 **Applied Harmonic Analysis: An Introduction to Signal Processing**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in MATH141; and 1 course with a minimum grade of C- from (MATH240, MATH461, MATH341); and familiarity with MATLAB is required.

Introduces students to the mathematical concepts arising in signal analysis from the applied harmonic analysis point of view. Topics include applied linear algebra, Fourier series, discrete Fourier transform, Fourier transform, Shannon Sampling Theorem, wavelet bases, multiresolution analysis, and discrete wavelet transform.

0101	Wojciech Czaja	Seats (Total: 28)
	MWF 9:00am - 9:50am	MTH 0306

MATH424 **Introduction to the Mathematics of Finance**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in MATH141; and 1 course with a minimum grade of C- from (STAT400, STAT410); and permission of CMNS-Mathematics department. Recommended: MATH246, MATH240, MATH241, MATH340, or MATH341. Credit only granted for: BMGT444, MATH424.

Introduction to the mathematical models used in finance and economics with emphasis on pricing derivative instruments. Designed for students in mathematics, computer science, engineering, finance and physics. Financial markets and instruments; elements from basic probability theory; interest rates and present value analysis; normal distribution of stock returns; option pricing; arbitrage pricing theory; the multiperiod binomial model; the Black-Scholes option pricing formula; proof of the Black-Scholes option pricing formula and applications; trading and hedging of options; Delta hedging; utility functions and portfolio theory; elementary stochastic calculus; Ito's Lemma; the Black-Scholes equation and its conversion to the heat equation.

0101	Dionisios Margetis	Seats (Total: 32)
	TuTh 12:30pm - 1:45pm	MTH 0201

MATH430 **Euclidean and Non-Euclidean Geometries**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH240, MATH341, MATH461).

Hilbert's axioms for Euclidean geometry. Neutral geometry: the consistency of the hyperbolic parallel postulate and the inconsistency of the elliptic parallel postulate with neutral geometry. Models of hyperbolic geometry. Existence and properties of isometries.

0101	Samuel Bloom	Seats (Total: 20)
	MWF 12:00pm - 12:50pm	MTH 1313

MATH431 **Geometry for Computer Applications**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH461, MATH240, MATH341).

Topics from projective geometry and transformation geometry, emphasizin the two-dimensional representation of three-dimensional objects and objects moving about in the plane and space. The emphasis will be on formulas and algorithms of immediate use in computer graphics.

0101	William Goldman	Seats (Total: 25)
	TuTh 9:30am - 10:45am	HBK 0125

MATH432 **Introduction to Topology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in MATH410.

Metric spaces, topological spaces, connectedness, compactness (includin Heine-Borel and Bolzano-Weierstrass theorems), Cantor sets, continuous maps and homeomorphisms, fundamental group (homotopy, covering spaces, the fundamental theorem of algebra, Brouwer fixed point theorem), surfaces (e.g., Euler characteristic, the index of a vector field, hairy sphere theorem), elements of combinatorial topology (graphs and trees, planarity, coloring problems).

0101	James Schafer	Seats (Total: 18)
	TuTh 9:30am - 10:45am	CHM 0122

MATH436 **Differential Geometry of Curves and Surfaces I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH241, MATH340); and 1 course with a minimum grade of C- from (MATH461, MATH240, MATH341); and must have completed two 400-level MATH courses with a minimum grade of C- (not including MATH461, 478, and 480's).

Curves in the plane and Euclidean space, moving frames, surfaces in Euclidean space, orientability of surfaces; Gaussian and mean curvatures; surfaces of revolution, ruled surfaces, minimal surfaces, special curves on surfaces, "Theorema Egregium"; the intrinsic geometry of surfaces.

0101	Allan Yashinski	Seats (Total: 25)
	MWF 10:00am - 10:50am	MTH 0104

MATH445 **Elementary Mathematical Logic**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in MATH141.

Elementary development of propositional and predicate logic, including semantics and deductive systems and with a discussion of completeness, incompleteness and the decision problem.

0101	Roohollah Ebrahimian	Seats (Total: 25)
	MWF 12:00pm - 12:50pm	MTH 0407

MATH452 **Introduction to Dynamics and Chaos**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH341. Or MATH246; and (MATH240 or MATH461). Also offered as: AMSC452. Credit only granted for: AMSC452 or MATH452.

An introduction to mathematical dynamics and chaos. Orbits, bifurcations, Cantor sets and horseshoes, symbolic dynamics, fractal dimension, notions of stability, flows and chaos. Includes motivation and historical perspectives, as well as examples of fundamental maps studied in dynamics and applications of dynamics.

0101	Adam Kanigowski	Seats (Total: 25)
	TuTh 11:00am - 12:15pm	EGR 1104

MATH456 **Cryptography**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: (CMSC106, CMSC131, or ENEE150; or equivalent programming experience); and (2 courses from (CMSC330, CMSC351, ENEE324, or ENEE380); or any one of these courses and a 400-level MATH course, or two 400-level MATH courses). Or permission of instructor. Also offered as: CMSC456, ENEE456. Credit only granted for: MATH456, CMSC456 or ENEE456.

The theory, application, and implementation of mathematical techniques used to secure modern communications. Topics include symmetric and public-key encryption, message integrity, hash functions, block-cipher design and analysis, number theory, and digital signatures.

0101	Jonathan Rosenberg MWF 1:00pm - 1:50pm	Seats (Total: 32) MTH B0421	
0201	William Gasarch MW 2:00pm - 3:15pm	Seats (Total: 88) CSI 2117	

MATH461 **Linear Algebra for Scientists and Engineers**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in MATH141; and must have completed any MATH or STAT course with a prerequisite of MATH141. Credit only granted for: MATH240, MATH341, or MATH461. Additional information: This course may not be used towards the upper level math requirements for MATH/STAT majors.

Basic concepts of linear algebra. This course is similar to MATH 240, but with more extensive coverage of the topics needed in applied linear algebra: change of basis, complex eigenvalues, diagonalization, the Jordan canonical form.

0111	Manoussos Grillakis TuTh 2:00pm - 3:15pm M 9:00am - 9:50am	Seats (Total: 30) ARM 0126 MTH B0429	Discussion
0112	Manoussos Grillakis TuTh 2:00pm - 3:15pm M 9:00am - 9:50am	Seats (Total: 30) ARM 0126 MTH 0304	Discussion
0113	Manoussos Grillakis TuTh 2:00pm - 3:15pm M 9:00am - 9:50am	Seats (Total: 30) ARM 0126 MTH 0411	Discussion
0121	Manoussos Grillakis TuTh 2:00pm - 3:15pm M 11:00am - 11:50am	Seats (Total: 30) ARM 0126 MTH B0429	Discussion
0122	Manoussos Grillakis TuTh 2:00pm - 3:15pm M 11:00am - 11:50am	Seats (Total: 30) ARM 0126 MTH 0305	Discussion
0131	Manoussos Grillakis TuTh 2:00pm - 3:15pm M 12:00pm - 12:50pm	Seats (Total: 30) ARM 0126 MTH B0429	Discussion

0132	Manoussos Grillakis TuTh 2:00pm - 3:15pm M 12:00pm - 12:50pm	Seats (Total: 30) ARM 0126 MTH 0305	Discussion
0141	Manoussos Grillakis TuTh 2:00pm - 3:15pm M 2:00pm - 2:50pm	Seats (Total: 30) ARM 0126 MTH B0429	Discussion
0142	Manoussos Grillakis TuTh 2:00pm - 3:15pm M 2:00pm - 2:50pm	Seats (Total: 30) ARM 0126 MTH 0305	Discussion
0143	Manoussos Grillakis TuTh 2:00pm - 3:15pm M 2:00pm - 2:50pm	Seats (Total: 30) ARM 0126 MTH 0302	Discussion
0211	Javier Morales Delgado TuTh 2:00pm - 3:15pm	Seats (Total: 30) MTH 0106	

MATH462 **Partial Differential Equations**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH241, MATH340); and 1 course with a minimum grade of C- from (MATH246, MATH341).

Linear spaces and operators, orthogonality, Sturm-Liouville problems and eigenfunction expansions for ordinary differential equations. Introduction to partial differential equations, including the heat equation, wave equation and Laplace's equation. Boundary value problems, initial value problems and initial-boundary value problems.

0101	Dionisios Margetis TuTh 9:30am - 10:45am	Seats (Total: 25) ITV 1100	
0201	Ricardo Nochetto TuTh 2:00pm - 3:15pm	Seats (Total: 30) MTH 0411	

MATH463 **Complex Variables for Scientists and Engineers**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH241, MATH340).

The algebra of complex numbers, analytic functions, mapping properties of the elementary functions. Cauchy integral formula. Theory of residues and application to evaluation of integrals. Conformal mapping.

0101	Vadim Kaloshin	Seats (Total: 25)
	TuTh 9:30am - 10:45am	HBK 0123

MATH464 **Transform Methods for Scientists and Engineers**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH246, MATH341).

Fourier transform, Fourier series, discrete fast Fourier transform (DFT and FFT). Laplace transform. Poisson summations, and sampling. Optional Topics: Distributions and operational calculus, PDEs, Wavelet transform, Radon transform and applications such as Imaging, Speech Processing, PDEs of Mathematical Physics, Communications, Inverse Problems.

0101	Radu Balan	Seats (Total: 25)
	TuTh 11:00am - 12:15pm	CHM 1228

MATH475 **Combinatorics and Graph Theory**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH240, MATH341, MATH461); and 1 course with a minimum grade of C- from (MATH241, MATH340); and permission of CMNS-Mathematics department. Also offered as: CMSC475. Credit only granted for: MATH475 or CMSC475.

General enumeration methods, difference equations, generating functions. Elements of graph theory, matrix representations of graphs, applications of graph theory to transport networks, matching theory and graphical algorithms.

0101	Wiseley Wong	Seats (Total: 30)
	MWF 9:00am - 9:50am	MTH 0307

MATH478A **Selected Topics For Teachers of Mathematics**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

MATH480 **Algebra for Middle School Teachers**

Credits: 3 Grading Method: Regular

Prerequisite: MATH214. Restriction: Must be a middle school teacher; and permission of CMNS-Mathematics department. Credit only granted for: MATH480 or MATH483. Additional information: Not applicable to MATH/STAT major or minor requirements.

Prepares teachers with elementary certification to teach Algebra 1 in middle school. Focuses on basic algebra concepts and related theoretical ideas.

Contact department for information to register for this course.

MATH487 **Number for Middle Grades Teachers**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have admission to M.A. or M.Ed. with concentration in Mathematics Education; or permission of CMNS-Mathematics department. Restriction: This course may not be used towards the upper level math requirements for the MATH/STAT major. Credit only granted for: MATH487 or MATH498K. Formerly: MATH498K.

The rational number and proportional reasoning concepts developed in the middle grades and the larger mathematical context for these. Multiple representations of relationships, including verbal descriptions, diagrams, tables, graphs, and equations. Common misconceptions.

Contact department for information to register for this course.

MATH489 **Research Interactions in Mathematics; Research Interactions in Mathematics**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Students participate in a vertically integrated (undergraduate, graduat and/or postdoctoral, faculty) mathematics research group. Format varies. Students and supervising faculty will agree to a contract which must be approved by the department. Up to three credits of MATH489 may be applied to the mathematics degree requirements. See the department's MATH489 online syllabus for further information.

Contact department for information to register for this course.

MATH498A **Selected Topics in Mathematics**

(Perm req)

Credits: 1-9 Grading Method: Regular, Pass-Fail, Audit

Topics of special interest to advanced undergraduate students will be offered occasionally under the general guidance of the departmental committee on undergraduate studies.

Contact department for information to register for this course.

MATH600 **Abstract Algebra I**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: MATH405 and MATH403; or students who have taken courses with comparable content may contact the department.

Groups with operators, homomorphism and isomorphism theorems, normal series, Sylow theorems, free groups, Abelian groups, rings, integral domains, fields, modules. Topics may include HOM (A,B), Tensor products, exterior algebra.

Offered fall only.

0101	Xuhua He	Seats (Total: 25)
	MWF 11:00am - 11:50am	PHY 1219

MATH606 **Algebraic Geometry I**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: MATH600 and MATH601.

Prime and primary ideals in Noetherian rings, Hilbert Nullstellensatz, places and valuations, prevarieties (in the sense of Serre), dimension, morphisms, singularities, varieties, schemes, rationality.

0101	Harry Tamvakis	Seats (Total: 20)
	TuTh 2:00pm - 3:15pm	MTH 0401

MATH630 **Real Analysis I**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: MATH411; or students who have taken courses with comparable content may contact the department.

Lebesgue measure and the Lebesgue integral on R, differentiation of functions of bounded variation, absolute continuity and fundamental theorem of calculus, Lp spaces on R, Riesz-Fischer theorem, bounded linear functionals on Lp, measure and outer measure, Fubini's theorem.

0101	Patrick Fitzpatrick	Seats (Total: 25)
	MWF 12:00pm - 12:50pm	MTH B0421

MATH632 **Functional Analysis**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: MATH631.

Introduction to functional analysis and operator theory: normed linear spaces, basic principles of functional analysis, bounded linear operators on Hilbert spaces, spectral theory of selfadjoint operators, applications to differential and integral equations, additional topics as time permits.

0101	Radu Balan	Seats (Total: 21)
	TuTh 12:30pm - 1:45pm	PHY 4222

MATH642 **Dynamical Systems I**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MATH432. And MATH630; or students who have taken courses with comparable content may contact the department.

Foundations of topological dynamics, homeomorphisms, flows, periodic and recurrent points, transitivity and minimality, symbolic dynamics. Elements of ergodic theory, invariant measures and sets, ergodicity, ergodic theorems, mixing, spectral theory, flows and sections. Applications of dynamical systems to number theory, the Weyl theorem, the distribution of values of polynomials, Vander Waerden's theorem on arithmetic progressions.

0101	Rodrigo Trevino	Seats (Total: 15)
	TuTh 11:00am - 12:15pm	EGR 1110

MATH673 **Partial Differential Equations I**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MATH411; or students who have taken courses with comparable content may contact the department. Also offered as: AMSC673. Credit only granted for: AMSC673 or MATH673.

Analysis of boundary value problems for Laplace's equation, initial value problems for the heat and wave equations. Fundamental solutions, maximum principles, energy methods. First order nonlinear PDE, conservation laws. Characteristics, shock formation, weak solutions. Distributions, Fourier transform.

Offered fall only.

0101	Matei Machedon	Seats (Total: 25)
	MWF 2:00pm - 2:50pm	MTH 0104

MATH689 **Research Interactions in Mathematics**

(Perm req)

Credits: 1-3

Grading Method: Regular, Audit

The students participate in a vertically integrated (undergraduate, graduate and/or postdoctoral, faculty) research group. Format varies, but includes regular meetings, readings and presentations of material. See graduate program's online syllabus or contact the graduate program director for more information.

Contact department for information to register for this course.

MATH695 **Teaching Seminar**

Credits: 1

Grading Method: Regular

Restriction: Must be in one of the following programs (Mathematics (Doctoral); Mathematics (Master's); Mathematical Statistics (Doctoral); Applied Mathematics and Scientific Computation (Master's); Mathematical Statistics (Master's); Applied Mathematics and Scientific Computation (Doctoral)).

A course intended for first year teaching assistants. Topics include: everyday mechanics of teaching; teaching methods and styles; technology; course enrichment, diversity in the classroom; sexual harassment; teacher-student interactions; presentations by students.

0101	Justin Wyss-Gallifent	Seats (Total: 25)
	W 4:00pm - 5:30pm	MTH B0421

MATH712 **Mathematical Logic I**

Credits: 3

Grading Method: Regular, Audit

Sentential logic, first-order languages, models and formal deductions. Basic model theory including completeness and compactness theorems, other methods of constructing models, and applications such as non-standard analysis.

0101	Michael Laskowski	Seats (Total: 15)
	MWF 2:00pm - 2:50pm	MTH 0402

MATH730 **Fundamental Concepts of Topology**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: MATH403, MATH410, and MATH411; or students who have taken courses with comparable content may contact the department.

Survey of basic point set topology, fundamental group, covering spaces, Van Kampen's theorem, simplicial complexes, simplicial homology, Euler characteristics and classification of surfaces.

0101	Sarah Yeakel TuTh 11:00am - 12:15pm	Seats (Total: 24) CHM 0124

MATH742 **Geometric Analysis**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MATH673 and MATH674; or MATH740.

Calculus of Variations, Bochner technique, Morse theory, weak solutions and elliptic regularity, maximum principle for elliptic and parabolic equations, Green's function of the Laplacian, isoperimetric and Sobolev inequalities, continuity method, curvature and comparison results, harmonic maps, curvature prescription problems.

Contact department for information to register for this course.

MATH744 **Lie Groups I**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MATH405, MATH403, MATH411, and MATH432; or students who have taken courses with comparable content may contact the department.

An introduction to the fundamentals of Lie groups, including some material on groups of matrices and Lie algebras.

0101	Richard Wentworth TuTh 9:30am - 10:45am	Seats (Total: 20) AJC 2134

MATH799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

MATH808A **Selected Topics in Algebra**

Credits: 1-3 Grading Method: Regular

Advanced topics of current interest.

Contact department for information to register for this course.

MATH808C **Selected Topics in Algebra; Galois and Etale Cohomology**

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics of current interest.

0101	Niranjan Ramachandran	Seats (Total: 20)
	MWF 11:00am - 11:50am	MTH 1311

MATH808G **Selected Topics in Algebra; Intro to Catergorification of Quantum Groups**

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics of current interest.

0101	Huanchen Bao	Seats (Total: 18)
	MWF 10:00am - 10:50am	MTH B0431

MATH808J **Selected Topics in Algebra; Moduli of Elliptic Curves**

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics of current interest.

0101	Michael Rapoport	Seats (Total: 20)
	MWF 1:00pm - 1:50pm	MTH 0403

MATH808L **Selected Topics in Algebra; Elliptic Curves**

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics of current interest.

Contact department for information to register for this course.

MATH818A **Selected Topics in Logic**

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics of current interest.

Contact department for information to register for this course.

MATH848A **Selected Topics in Geometry and Topology**

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics of current interest.

Contact department for information to register for this course.

MATH848E **Selected Topics in Geometry and Topology; Scissors Congruence and Invariants of 3-Manifolds**

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics of current interest.

Contact department for information to register for this course.

MATH848G **Selected Topics in Geometry and Topology; Topics of Geometric Analysis**

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics of current interest.

0101	Yanir Rubinstein	Seats (Total: 17)
	MW 2:00pm - 3:15pm	MTH 2300

MATH858A **Selected Topics in Analysis; Long Time Dynamics of Kinetic Equations**

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics of current interest.

Contact department for information to register for this course.

MATH858D **Selected Topics in Analysis; Mathematical Analysis of Fluid Mechanics**

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics of current interest.

0101	Jacob Bedrossian	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	PHY 4222

MATH858W **Selected Topics in Analysis; Frames, Sampling and Wavelets**

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics of current interest.

0101	John Benedetto	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	CHM 0127

MATH868A **SelectedTopics in Complex Analysis**

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics of current interest.

Contact department for information to register for this course.

MATH868C **SelectedTopics in Complex Analysis; Several Complex Variables**

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics of current interest.

0101	Tamas Darvas	Seats (Total: 20)
	TuTh 12:30pm - 1:45pm	MTH 1311

MATH898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

MATH899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

MEES Marine-Estuarine-Environmental Sciences Fall 2018

MEES607 **Quantitative Methods in Environmental Sciences**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MATH120 and MATH121; or must have completed MATH220 and MATH221; or students who have taken courses with comparable content may contact the department. Credit only granted for: MEES607 or MEES698G. Formerly: MEES698G.

Mathematical approaches and solutions (both analytical and numerical) that cut across environmental disciplines, and will introduce analytical techniques.

Taught at the Chesapeake Biological Laboratory and on the Interactive Video Network.

0101	Hongsheng Bi, Lawrence Sanford	Seats (Total: 20)	
	TuTh 9:30am - 10:50am	HJP 1213B	
	F 11:00am - 11:50am	HJP 1213B	Discussion

MEES608B **Seminar in Marine-Estuarine-Environmental Sciences; Responsible Conduct of Research**

Credits: 1 Grading Method: Regular, Audit

Taught at the Chesapeake Biological Laboratory and on the Interactive Video Network.

0101	Thomas Miller, Russell Hill	Seats (Total: 20)
	Tu 2:00pm - 2:50pm	HJP 1213B

MEES608D **Seminar in Marine-Estuarine-Environmental Sciences; Scientific Writing and Communication**

Credits: 2 Grading Method: Regular, Audit

Taught at the Horn Point Laboratory and on the Interactive Video Network.

0101	Elizabeth North	Seats (Total: 24)
	F 9:00am - 10:50am	HJP 1213B

MEES608R **Seminar in Marine-Estuarine-Environmental Sciences; Applied Bayesian Statistics**

Credits: 1 Grading Method: Regular, Audit

Taught at Chesapeake Laboratories (CBL) and over the Interactive Video Network (IVN)

0101	Dong Liang	Seats (Total: 20)
	Tu 8:30am - 9:20am	HJP 1213B
	Class time/details on ELMs	ONLINE

MEES608U **Seminar in Marine-Estuarine-Environmental Sciences; Coastal Risk and Resilience**

Credits: 1 Grading Method: Regular, Audit

Taught at Horn Point Laboratories (HPL) and over the Interactive Video Network (IVN)

0101	Cindy Palinkas, William Nardin Th 8:30am - 9:20am	Seats (Total: 20) HJP 1213B

MEES614 **Landscape Ecology**

(Perm req)

Credits: 4 Grading Method: Regular

Restriction: Permission of instructor.

Landscape ecology emphasizes spatial patterning--its causes, development, and importance for ecological processes. Students will become familiar with concepts, methods, and applications of landscape ecology through reading classic and contemporary literature representative of state-of-the-art research; class lectures; completion of two projects designed to provide "hands on" experience with some of the quantitative methods and tools; and completion of one independent project.

Taught at Appalachian Laboratories (AL) and over the Interactive Video Network (IVN).

0101	Helen Bailey, Matthew Fitzpatrick TuTh 12:30pm - 1:50pm F 12:00pm - 12:50pm	Seats (Total: 20) HJP 1213C HJP 1213C

MEES620 **Environment and Society**

Credits: 3 Grading Method: Regular, Audit

Additional information: Offered over the interactive video network.

Students will obtain foundational knowledge of core theories and methods that integrate cultural and socio-economic research into environmental science. Key topics include: coupled natural and human systems, cultural models of the environment, social networks, ecological economics, political ecology, environmental justice, and science communication.

Taught at UMCP and over the Interactive Video Network (IVN). Also offered as ANTH620. Credit only granted for MEES620 or ANTH620.

0101	Michael Paolisso, William Dennison Th 2:00pm - 4:45pm	Seats (Total: 20) HJP 1213B

MEES637 **Zooplankton Ecology**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MEES621; or permission of instructor. Credit only granted for: MEES698G, MEES637. Formerly: MEES698G.

A quantitative investigation of zooplankton ecology, emphasizing population dynamics and modeling, feeding, behavior, food-webs, and bio-physical interactions.

Taught at Horn Point Laboratories (HPL) and over the Interactive Video Network (IVN).

0101	James Pierson	Seats (Total: 20)
	MW 3:30pm - 4:50pm	HJP 1213B

MEES640 **Interconnected Earth Systems:Land, Ocean, and Estuary**

Credits: 3 Grading Method: Regular, Audit

Explores the interconnected physical and biogeochemical systems of land, estuary, and ocean with cross cutting themes of human impacts and global change. Broad concepts will be combined with targeted interactive case studies to demonstrate how these systems are linked by humans, climate, and water.

Taught over the Interactive Video Network (IVN).

0101	Victoria Coles, Mark Castro, Michael Gonsior	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	HJP 1213B

MEES660 **Ecological Systems**

Credits: 4 Grading Method: Regular, Audit

An introduction to the field of ecology is provided for matriculating graduate students and prepares them for more advanced concepts. Students will be exposed to ecology both in theory and practice through lectures, readings, and quantitative exercises, round table debates and discussions with current practitioners.

Taught over the Interactive Video Network (IVN).

0101	Robert Hilderbrand, Ryan Woodland	Seats (Total: 20)
	MW 12:00pm - 1:50pm	HJP 1213B

MEES663 **Ecological Genomics**

Credits: 3 Grading Method: Regular, Audit

New technologies in genomics, especially next-generation sequencing, have revolutionized the fields of ecology and evolutionary biology across all hierarchical levels of biological organization. Within virtually any species, we can now study genetic diversity and gene expression across the entire genome to understand adaptation to current environments and responses to global change. In multi-species contexts, we now have the tools to understand the importance of interspecific gene flow in adaptation, determine the role of genetic diversity in community composition, and characterize the diversity and function of cryptic organisms, such as microbes, in communities and ecosystems. This course will cover the major research topics in ecological genomics, considering individual, population, interspecific, and community and ecosystem hierarchical levels. The course will comprise lectures, student-led discussions of primary literature exemplifying applications of genomics to contemporary environmental problems, and hands-on experience manipulating and analyzing real genomic data sets with the latest bioinformatic tools in the UNIX/Linux and R environments.

Taught over the Interactive Video Network (IVN)

0101	Paul Gugger, Louis Plough	Seats (Total: 20)
	MW 2:00pm - 3:20pm Class time/details on ELMs	HJP 1213B ONLINE

MEES680 **Cell and Molecular Biology for the Environmental Scientist- From Genes to Ecosystems**

Credits: 4 Grading Method: Regular, Audit

Introduces environmental scientists to the methods and approaches that are the foundations for today's breakthroughs in molecular and cellular biology. Detailed examination of papers published in the last few years along with online background materials will be used to reinforce the connection of key concepts to experimentation.

Taught at the Institute of Marine & Environmental Technology (IMET) and over the Interactive Video Network.

0101	Allen Place	Seats (Total: 20)
	MW 8:00am - 9:50am	HJP 1213B

MEES682 **Fishery Science and Management**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of instructor.

Aquatic production and fisheries yields. Introduction to fish populatio dynamics and assessment methods. Effects of fishing on resource potential yields. Causes of fluctuations in resource abundance. An emphasis on the relationship between science and management.

0101	Michael Wilberg, Genevieve Nesslage	Seats (Total: 20)
	MW 2:00pm - 3:20pm	HJP 1213C

MEES698B **Special Topics in Marine-Estuarine-Environmental Sciences; Environmental Statistics I**

Credits: 3 Grading Method: Regular, Audit

Credit according to time schedule and course organization. Lecture and/or laboratory series organized to study selected areas of environmental science not otherwise considered by existing courses. May be repeated for credit since topic coverage will change.

Taught at the Chesapeake Biological Laboratory and on the Interactive Video Network.

0101	Viacheslav Lyubchich	Seats (Total: 35)
	MW 10:00am - 11:20am	HJP 1213B

MEES698E **Special Topics in Marine-Estuarine-Environmental Sciences; Principles and Practices of Ecosystem Restoration**

Credits: 3 Grading Method: Regular, Audit

Credit according to time schedule and course organization. Lecture and/or laboratory series organized to study selected areas of environmental science not otherwise considered by existing courses. May be repeated for credit since topic coverage will change.

Also offered as GEOL453 and GEOL789L. Overview of critical ecosystem functions across biomes/geologic settings emphasizing tradeoffs in restoration designs. Case studies illuminate structure's influence over biophysical and biogeochemical processes supporting ecosystems; then show how properties of physical, chemical, and ecosystem processes can be altered by different restoration strategies, to optimize ecosystem services and habitat quality. Includesa semester research project.

0101	Sujay Kaushal	Seats (Total: 20)
	Tu 3:30pm - 6:30pm	BPS 1232

MEES698P **Special Topics in Marine-Estuarine-Environmental Sciences; Phytoplankton Physiological Ecology**

Credits: 1 Grading Method: Regular, Audit

Credit according to time schedule and course organization. Lecture and/or laboratory series organized to study selected areas of environmental science not otherwise considered by existing courses. May be repeated for credit since topic coverage will change.

Taught over the interactive video network.

0101	Patricia Glibert	Seats (Total: 15)
	TBA	HJP 1213

MEES699 **Special Problems in Marine-Estuarine-Environmental Sciences**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Research on specialized topics under the direction of individual faculty members.

Contact department for information to register for this course.

MEES708X **Advanced Topics in Marine-Estuarine-Environmental Science; R Programming - Introduction**

Credits: 1 Grading Method: Regular, Audit

Lectures, experimental courses and other specialized graduate training in various relevant disciplines.

0101	Viacheslav Lyubchich	Seats (Total: 20)
	Meets August 27, 2018 - October 12, 2018	
	Tu 3:00pm - 4:50pm	HJP 1213B

MEES708Y **Advanced Topics in Marine-Estuarine-Environmental Science; R Programming - Intermediate**

Credits: 1 Grading Method: Regular, Audit

Lectures, experimental courses and other specialized graduate training in various relevant disciplines.

0101	Viacheslav Lyubchich	Seats (Total: 20)
	Meets October 15, 2018 - December 10, 2018	
	Tu 3:00pm - 4:50pm	HJP 1213B

MEES718B **Study Groups on Issues in Marine Estuarine Enviornmental Sciences; Global Crisis Coral Reefs**

Credits: 2 Grading Method: Regular, Audit

Active discussions on current environmental topics and issues. Efforts may result in manuscripts, technical report or innovative communication products.

Taught at Chesapeake Laboratories (CBL) and over the Interactive Video Network (IVN)

0101	Carys Mitchelmore, Hali Kilbourne	Seats (Total: 20)
	F 1:00pm - 2:50pm	HJP 1213B

MEES718C **Study Groups on Issues in Marine Estuarine Enviornmental Sciences; Nutrients in the Choptank River**

Credits: 2 Grading Method: Regular, Audit

Active discussions on current environmental topics and issues. Efforts may result in manuscripts, technical report or innovative communication products.

Taught at Horn Point Laboratories (HPL) and over the Interactive Video Network (IVN)

0101	Thomas Fisher, Jeffrey Cornwell	Seats (Total: 20)
	F 1:00pm - 2:50pm	HJP 1213C

MEES799 **Masters Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

MEES898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

MEES899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

MIEH Maryland Institute for Applied Environmental Health Fall 2018

MIEH300 **A Public Health Perspective: Introduction to Environmental Health**

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CHEM131 and CHEM132; and must have completed or be concurrently enrolled in SPHL100 or PHSC300. Restriction: Must have earned a minimum of 60 credits. And must be in Public Health Science program; or permission of SPHL-School of Public Health. Credit only granted for: SPHL498N or MIEH300. Formerly: SPHL498N.

Environmental health is that branch of public health that deals with the human health effects of exposure to chemical, physical, and biological agents in the community, workplace, and home. Activities within Environmental Health Sciences are associated with recognizing, assessing, understanding, and mitigating the impacts of chemical, physical, and biological agents as well as understanding how human behavior and action impacts the environment. This course focuses on the central concepts, principles, issues, and applications of the essential scientific components and strategies of control of major environmental health problems.

0101	Devon Payne-Sturges MW 9:00am - 9:50am W 10:00am - 10:50am	Seats (Total: 20) SPH 1312 SPH 0307	Discussion
0102	Devon Payne-Sturges MW 9:00am - 9:50am W 11:00am - 11:50am	Seats (Total: 20) SPH 1312 SPH 0307	Discussion
0103	Devon Payne-Sturges MW 9:00am - 9:50am W 12:00pm - 12:50pm	Seats (Total: 20) SPH 1312 SPH 0307	Discussion
0104	Devon Payne-Sturges MW 9:00am - 9:50am F 9:00am - 9:50am	Seats (Total: 20) SPH 1312 CHE 2116	Discussion
0105	Devon Payne-Sturges MW 9:00am - 9:50am F 10:00am - 10:50am	Seats (Total: 20) SPH 1312 CHE 2116	Discussion
0106	Devon Payne-Sturges MW 9:00am - 9:50am F 11:00am - 11:50am	Seats (Total: 20) SPH 1312 CHE 2116	Discussion
SG91	Andre Markon W 3:00pm - 5:30pm *Restricted to Public Health Science students (code:12140).*	Seats (Total: 40) BLD3 4211	

MIEH309 **Environmental Health Research**

(Perm req) Credits: 1-3 Grading Method: Regular

This research-based course will provide undergraduates with the opportunity to work closely with one of the faculty researchers in the Maryland Institute for Applied Environmental Health (MIAEH) within the School of Public Health. Our research covers multiple fields within the environmental health sciences (e.g. environmental epidemiology, exposure science, risk assessment, environmental microbiology, environmental microbial genomics, food toxicology, airborne infection transmission, environmental justice, and children's environmental health) that involve either laboratory-based research or non-laboratory based studies. Students will not only gain invaluable research and interpersonal skills but also contribute to MIAEH's ongoing environmental health research programs.

0201	Paul Turner Contact instructor or department for details.	Seats (Total: 5)
0202	Amir Sapkota Contact instructor or department for details.	Seats (Total: 5)
0203	Amy Sapkota Contact instructor or department for details.	Seats (Total: 5)
0204	Donald Milton, Jennifer German Contact instructor or department for details.	Seats (Total: 25)
0205	Robin Puett Contact instructor or department for details.	Seats (Total: 5)
0206	Sacoby Wilson Contact instructor or department for details.	Seats (Total: 5)
0207	Kristin Cipriani Contact instructor or department for details.	Seats (Total: 5)
0208	Lesliam Quiros Alcala Contact instructor or department for details.	Seats (Total: 5)
0209	Devon Payne-Sturges Contact instructor or department for details.	Seats (Total: 5)
0210	Muhiuddin Haider Contact instructor or department for details.	Seats (Total: 5)

MIEH321 **Syphilis to SARS: Climate Change, Development and Emergence of Infectious Diseases**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Syphilis to SARS will examine the influences of environmental factors, economic development, migration, and land use changes on emergence and reemergence of infectious diseases. Population growth, development, and climate change are impacting natural reservoirs of infectious diseases and how they transmit through human populations. The course will look at both historical accounts and newly emerging and reemerging diseases including influenza as examples of our role in altering the diseases that threaten us. We will also critically evaluate how the issues are portrayed in news and entertainment media and controversy about the ethics of research on deadly viruses.

0101	Sara Bazaco	Seats (Total: 30)
	Th 5:00pm - 7:30pm	SPH 0307

MIEH330 **Environmental Justice, Racism, and Environmental Health Disparities: How where you live can kill you**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in MIEH300. Restriction: Must be in a major in SPHL-School of Public Health. Credit only granted for: MIEH210 or MIEH330. Formerly: MIEH210.

Examination of environmental justice history, theory and science; discussion of linkages between the physical, natural, and social environments and environmental injustice; analysis of how environmental injustice can lead to adverse health conditions and environmental health disparities; discuss environmental justice case studies; and understanding of tools that can be used to understand and address environmental justice issues.

0101	Sacoby Wilson	Seats (Total: 32)
	TuTh 12:30pm - 1:45pm	ATL 2416

MIEH400 **Introduction to Global Health**

Credits: 3 Grading Method: Regular General Education: DVUP

Prerequisite: Minimum grade of C- in MIEH300; and 1 course with a minimum grade of C- from (SPHL100, PHSC300). Restriction: Must be in the Public Health Science program or must have permission of the program director; and must have completed 60 credits. Credit only granted for: MIEH400 or SPHL498A. Formerly: SPHL498A.

Exploration of theoretical frameworks and practical perspectives on issues shaping the global health panorama. Determinants examined through: biological and epidemiological; social, cultural and economic; environmental and geographic; multi-section, legal and institutional perspectives with synopsis of how these issues are addressed by international and community organizations in developing countries.

0101	Amir Sapkota MW 4:00pm - 4:50pm Th 11:00am - 11:50am	Seats (Total: 20) ESJ 1224 LEF 1222	Discussion
0102	Amir Sapkota MW 4:00pm - 4:50pm Th 12:30pm - 1:20pm	Seats (Total: 20) ESJ 1224 CHE 2116	Discussion
0103	Amir Sapkota MW 4:00pm - 4:50pm Th 2:00pm - 2:50pm	Seats (Total: 20) ESJ 1224 EGR 3102	Discussion
0104	Amir Sapkota MW 4:00pm - 4:50pm F 9:00am - 9:50am	Seats (Total: 20) ESJ 1224 CHE 2145	Discussion
0105	Amir Sapkota MW 4:00pm - 4:50pm F 10:00am - 10:50am	Seats (Total: 20) ESJ 1224 CHE 2136	Discussion
0106	Amir Sapkota MW 4:00pm - 4:50pm F 11:00am - 11:50am	Seats (Total: 20) ESJ 1224 CHE 2136	Discussion
0107	Amir Sapkota MW 4:00pm - 4:50pm F 12:00pm - 12:50pm	Seats (Total: 20) ESJ 1224 CHE 2136	Discussion

MIEH600 **Foundations of Environmental Health**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: HLTH761 or MIEH600. Formerly: HLTH761.

Overview of the chemical, physical and biological hazards present in our living and working environment and their effects on human health. Topics include: exposure assessment, industrial hygiene and safety, pesticides, community and indoor pollution, food-borne diseases, solid and hazardous wastes, water resources, risk assessment, ecological issues and environmental laws.

0101	Paul Turner F 1:00pm - 3:45pm	Seats (Total: 20) ATL 0201	

PLH1	James McDevitt	Seats (Total: 35)
	Contact instructor or department for details.	
	Must be in Public Health Policy & Practice program. For permission to enroll, contact oes@umd.edu.	

MIEH605 **Fundamentals of Global Health**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: SPHL600 or SPHL698A. Formerly: SPHL698A.

Exploration of theoretical frameworks and practicial perspectives in global health with particular attention to the analysis of the biological, epidemiological, social, cultural and behavioral interactions that affect global health study and project implementation. The emphasis is on innovative solutions to health issues in underserved populations.

0101	Muhiuddin Haider	Seats (Total: 10)
	W 5:00pm - 7:00pm Class time/details on ELMs	ATL 0201 ONLINE
	Every other lecture will be delivered in-person at the University of Maryland, College Park campus.	

MIEH609 **Methods in Environmental Health**

Credits: 1-3 Grading Method: Regular

This research-based rotation in environmental health sciences will provide graduate students with the opportunity to work closely with faculty researchers in the Maryland Institute for Applied Environmental Health (MIAEH) within the School of Public Health. Our research covers multiple fields within the environmental health sciences (e.g. environmental epidemiology, exposure science, risk assessment, environmental microbiology, environmental microbiology, environmental microbial genomics, food toxicology, airborne infection transmission, environmental justice, and children's environmental health) that involve either laboratory-based research or non-laboratory based studies. Students will not only gain invaluable research experience and interpersonal skills but also contribute to MIAEH's ongoing environmental health research programs.

0201	Paul Turner	Seats (Total: 5)
	Contact instructor or department for details.	
0202	Amir Sapkota	Seats (Total: 5)
	Contact instructor or department for details.	
0203	Amy Sapkota	Seats (Total: 5)
	Contact instructor or department for details.	

0204	Donald Milton Contact instructor or department for details.	Seats (Total: 5)
0205	Robin Puett Contact instructor or department for details.	Seats (Total: 5)
0206	Sacoby Wilson Contact instructor or department for details.	Seats (Total: 5)
0207	Lesliam Quiros Alcala Contact instructor or department for details.	Seats (Total: 5)
0208	Devon Payne-Sturges Contact instructor or department for details.	Seats (Total: 5)

MIEH688 **Seminar in the Maryland Institute for Applied Environmental Health: Current Topics in Environmental Health**

Credits: 1 Grading Method: Sat-Fail

Invited and in-house research presentations from guest scientists, faculty members, and students, and critical analysis of journal articles on current topics in environmental and occupational health.

0101	Donald Milton Tu 11:00am - 11:50am	Seats (Total: 10) SPH 2234CC

MIEH735 **Food Toxicology**

Credits: 3 Grading Method: Regular, Audit

Recommended: BSCI440, CHEM131, or BCHM462. Also offered as: NFSC735. Credit only granted for: MIEH735 or NFSC735.

An introduction to basic concepts in toxicology in relation to toxic food contaminants and additives; both synthetic and naturally occurring. Focus on exposure routes, molecular targets and susceptible individuals. Also includes regulatory toxicology with respect food toxins.

0101	Paul Turner, Robert Buchanan W 1:00pm - 3:45pm	Seats (Total: 20) EGR 3102

MIEH740 **Environmental Health Risk Assessment**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MIEH600; or permission of instructor.

Review of the major methods of human and ecological risk assessment conducted by the U.S. Environment Protection Agency. Emphasis on sources of uncertainty.

0101	Abdel-Razak Kadry	Seats (Total: 15)
	M 4:00pm - 6:45pm	JMZ 0118

MIEH778 **Internship in Public Health**

(Perm req)

Credits: 1-4 Grading Method: Regular, Audit

Internship and seminar providing an opportunity to apply previously acquired knowledge and skills in a health or allied health organization. Setting of the internship will depend upon the student's background and career goals.

0201	Robin Puett	Seats (Total: 5)
	Contact instructor or department for details.	

MIEH780 **Occupational Health**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MIEH720 and MIEH771; and must have completed SPHL602. Or permission of instructor.

A synthesis of epidemiology, toxicology, exposure science, risk assessment, and policy. Emphasis will be on methods for anticipating, recognizing, evaluating and controlling workplace hazards; the hierarchy of controls; and current hot topics in occupational health.

0101	Lesliam Quiros Alcala	Seats (Total: 15)
	Tu 4:00pm - 6:45pm	PLS 1168

MIEH783 **Proposal Development and Marketing for Public Health Scientists**

Credits: 3 Grading Method: Regular, Audit

Every scientist, whether in academia, government, or industry, must write compelling proposals if they are to succeed in having resources to pursue their passions and interests. To write a compelling proposal, we must develop clear and concise hypotheses and definitive ways to test them. But to have an impact, to get funded, to graduate, we must also excel at marketing our ideas and our achievements to other scientists and the public. This course is designed for doctoral students and postdoctoral fellows who want to develop and hone their proposal development and marketing skills.

0101	Donald Milton Tu 1:30pm - 3:30pm Class time/details on ELMs	Seats (Total: 10) EGR 1102 ONLINE

MIEH786 **Capstone Project in Public Health**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of SPHL-Maryland Institute for Applied Environmental Health.

Capstone experience provding opportunity to apply knowledge and skills to a specific public health problem or issue. Completion of project relevant to public health under the direction of an advisor.

0201	Paul Turner Contact instructor or department for details.	Seats (Total: 5)
0202	Amir Sapkota Contact instructor or department for details.	Seats (Total: 5)
0203	Amy Sapkota Contact instructor or department for details.	Seats (Total: 5)
0204	Donald Milton Contact instructor or department for details.	Seats (Total: 5)
0205	Robin Puett Contact instructor or department for details.	Seats (Total: 5)
0206	Sacoby Wilson Contact instructor or department for details.	Seats (Total: 5)
0207	Lesliam Quiros Alcala Contact instructor or department for details.	Seats (Total: 5)
0208	Devon Payne-Sturges Contact instructor or department for details.	Seats (Total: 5)
0209	Stephen Roth Contact instructor or department for details.	Seats (Total: 5)

MIEH788 **Critical Readings in Environmental Health**

Credits: 1-3 Grading Method: Regular, Audit

In-depth examination and critical discussion of the current literature relevant to environmental health.

Contact department for information to register for this course.

MIEH789 **Independent Study**

(Perm req)

Credits: 1-6 Grading Method: Regular, Audit

Individual reading and/or research under a specific faculty member in the department.

Contact department for information to register for this course.

MIEH799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

MIEH898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

MIEH899 **Doctoral Dissertation Research**

(Perm req)

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

MITH Maryland Institute for Technology in the Humanities — Fall 2018

MITH388 **Digital Humanities Research Assistantship**

Credits: 1-3 Grading Method: Regular, Pass-Fail

An applied introduction to the theory and practice of digital research. The internship includes regular meetings with MITH staff, including designers, developers, information professionals, project managers, and faculty, to gain knowledge of existing digital scholarship and resources within the arts and humanities. Students may contribute to existing MITH projects or propose a small, independent research project on which they will receive support from MITH staff.

0101	Purdom Lindblad	Seats (Total: 10)
	TBA	HBK 0108

MITH388T **Digital Humanities Research Assistantship; Maryland Institute for Technology in the Humanities Internships**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail

An applied introduction to the theory and practice of digital research. The internship includes regular meetings with MITH staff, including designers, developers, information professionals, project managers, and faculty, to gain knowledge of existing digital scholarship and resources within the arts and humanities. Students may contribute to existing MITH projects or propose a small, independent research project on which they will receive support from MITH staff.

0101	Purdom Lindblad	Seats (Total: 5)
	Contact instructor or department for details.	

MITH729 **Colloquium in Digital Studies**

(Perm req)

Credits: 1

Grading Method: Sat-Fail

Colloquium in support of the ARHU-MITH Graduate Certificate in Digital Studies. We will meet periodically (approximately 4-5 times a semester) to read and discuss current work in the field, interact with visiting speakers, share work in progress, learn new tools and methods, and hear research presentations from one another.

Class meets in TWS 3136 on the following dates: 9/8, 10/6, 11/3, 12/8.

0101	Matthew Kirschenbaum	Seats (Total: 20)
	F 3:00pm - 5:00pm	Location: TBA

MLAW MPower Undergraduate Law Programs Fall 2018

MLAW100 **Justice and the Law**

Credits: 3

Grading Method: Regular

Restriction: Course enrollment is restricted to students in the College Park Scholars Justice and Legal Thought Program (CPJT).

An exploration into the relationship between justice and law, including psychological, philosophical, political and legal approaches to justice, as well as an analytical framework for understanding human rights.

Restricted to College Park Scholars students in the Justice & Legal Thought Program.

0101	Rashawn Ray	Seats (Total: 28)	
	TuTh 11:00am - 11:50am	CCC 1205	
	F 9:00am - 9:50am	CCC 1100	Discussion

0102	Rashawn Ray TuTh 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 28) CCC 1205 CCC 1100	 Discussion
0103	Rashawn Ray TuTh 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 27) CCC 1205 CCC 1100	 Discussion

MLAW304 **Introduction to Law and Social Inquiry**

Credits: 3 Grading Method: Regular General Education: DSSP

Restriction: Must be in the Law and Society (MLAW) minor.

An exploration of the relationship between law and society from an interdisciplinary perspective. Major themes cover the impact of law on society, society on law and social change.

0101	Robert Koulish TuTh 9:30am - 10:45am	Seats (Total: 79) TYD 2109

MLAW358D **Selected Topics in Law and Society; Climate Policy and Practice: From Norms and Goals to Action**

Credits: 3 Grading Method: Regular

An interdisciplinary exploration of topics in law and society. Major scholarly interpretations of specific substantive fields of law.

Recognizing the urgency of the global climate crisis, students will cultivate their voice and sharpen their understanding of international climate policy, concepts, and institutions to create lasting impact in their communities and world. Deep dives into the science, economics, and legal and societal norms surrounding climate change will provide a foundation for adapting and working toward aspirational goals at all levels of engagement, from the University's Climate Action Plan to the United Nations' Sustainable Development Goals. Drawing on Youth Service America's "ASAP" model for taking action (Awareness, Service, Advocacy, Philanthropy), students will then undertake hands-on awareness and advocacy projects that expand their capacity as proactive citizens and change agents in building a more just, sustainable, climate-resilient society.

0101	Anna Ebers Tu 5:30pm - 8:00pm	Seats (Total: 30) VMH 1203

MLAW358M **Selected Topics in Law and Society; Law and Policy of Cybersecurity**

Credits: 3 Grading Method: Regular

An interdisciplinary exploration of topics in law and society. Major scholarly interpretations of specific substantive fields of law.

0101	Michael Greenberger	Seats (Total: 30)
	W 4:00pm - 6:30pm	TYD 2108

MLAW358R **Selected Topics in Law and Society; Race and the Law**

Credits: 3 Grading Method: Regular

An interdisciplinary exploration of topics in law and society. Major scholarly interpretations of specific substantive fields of law.

0101	Michael Spivey, Christine White	Seats (Total: 30)
	TuTh 11:00am - 12:15pm	BPS 1232

MLAW388 **Law and Society Internship**

Credits: 1-4 Grading Method: Regular

Participation in the Law and Society Internship (LASI) offers students the opportunity to enhance their education through practical skill building in the realm of law-related professionals.

Restricted to students within the Law and Society minor.

0101	Brandee Pettus	Seats (Total: 40)
	Class time/details on ELMs	ONLINE

MLSC MD Language Science Ctr Fall 2018

MLSC308 **PULSAR Language Science Research Seminar**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Research seminar for students in the PULSAR language science program. Weekly presentations and discussions on diverse topics in language science research, as well as on developing research skills.

0101	Tess Wood	Seats (Total: 25)
	Contact instructor or department for details.	

MOCB Molecular and Cell Biology Fall 2018

MOCB608 **Molecular and Cell Biology Seminar**

(Perm req)

Credits: 1 Grading Method: Regular

Seminar in molecular and cell biology.

0101	Jonathan Dinman	Seats (Total: 12)
	Contact instructor or department for details.	

MOCB699 **Laboratory Rotation**

(Perm req)

Credits: 2-3 Grading Method: Sat-Fail

Laboratory experience in molecular-cell biology.

Contact department for information to register for this course.

MOCB898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Sat-Fail

Contact department for information to register for this course.

MOCB899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Sat-Fail

Contact department for information to register for this course.

MUED Music Education Fall 2018

MUED155 **Fundamentals for the Classroom Teacher**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in one of the following programs (Early Childhood Education; Elementary Education) ; or must be a Pre-Elementary Education major; or must be a Pre-Early Childhood Education major.

The fundamentals of music theory and practice, related to the needs of the classroom and the kindergarten teacher.

0101	Yo-Jung Han	Seats (Total: 25)
	MW 4:15pm - 5:30pm	PAC 3160

MUED186 **Pre-professional Experiences I**

(Perm req)

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in Music Education program. Additional information: Fulfills the College of Arts and Humanities requirement for ARHU158.

An orientation into the role of the music teacher in the school and community. On-site school visits at elementary, middle and high school levels form the basis for discussion and exploration of all facets of the music education profession.

0101	Michael Hewitt	Seats (Total: 30)	
	M 10:00am - 10:50am F 9:00am - 10:50am	PAC 2168 PAC 2540	Lab

MUED213 **String Technique and Pedagogy I**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in Music Education program.

A study of violin, viola, cello and bass technique and pedagogy; beginning level. Emphasizes group process playing and teaching.

0101	Gene Pohl	Seats (Total: 25)
	TuTh 2:00pm - 3:15pm	PAC 2540

MUED320 **Teaching Secondary Instrumental Music I**

(Perm req)

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MUED187. Restriction: Must be in Music Education program.

Prepare instrumental-emphasis music education majors to synthesize the knowledge and skills that will enable them to extend secondary-level musical skill through planned instruction and development of teaching materials.

0101	Michael Hewitt	Seats (Total: 12)
	TuTh 9:30am - 10:45am	PAC 1230

MUED333 **Classroom Vocal Pedagogy**

Credits: 2 Grading Method: Regular

Prerequisite: MUED187 and MUED186. Restriction: Must be in Music Education program.

An introduction to the fundamentals of group vocal pedagogy for the choral and general classroom teacher, including the teaching of posture, breathing, resonance, registration, articulation and foreign language diction as appropriate to needs of the child or adolescent singer in K-12 classroom settings.

0101	Kenneth Elpus	Seats (Total: 10)
	W 4:00pm - 6:30pm	PAC 2130A

MUED420 **Teaching Secondary Instrumental Music II**

(Perm req)

Credits: 4 Grading Method: Regular, Pass-Fail General Education: DSSP

Prerequisite: MUED320 and MUED311. Restriction: Must be in Music Education program.

Prepare instrumental-emphasis music education majors to synthesize the knowledge and skills that will enable them to develop and/or maintain an exemplary, curricular-oriented, research-based, comprehensive secondary instrumental program.

0101	Michael Hewitt	Seats (Total: 20)	
	Tu 9:00am - 11:00am	PAC 2540	
	Contact instructor or department for details.	Location: TBA	Lab
	Th 8:00am - 12:00pm		

MUED471 **Teaching General Music**

(Perm req)

Credits: 4 Grading Method: Regular

Prerequisite: MUED222 and MUED333. Restriction: Must be in Music Education program.

An examination of children's musical development via model teaching experiences. Students in this course will be involved in learning appropriate techniques and materials used to plan, deliver, and assess musical instruction effectively in general music settings for K-12 students. The focus is on how to implement a sequential, balanced, and comprehensive music curriculum (i.e., artistic processes: creating, performing, and responding) that emphasizes opportunities for students to construct their own learning.

0101	Yo-Jung Han	Seats (Total: 15)	
	Tu 9:00am - 11:00am	PAC 2130A	
	Contact instructor or department for details.	Location: TBA	Lab
	Th 8:00am - 12:00pm		

MUED474 **Field Experiences: Pre-Student Teaching**

(Perm req)

Credits: 2 Grading Method: Regular

Prerequisite: MUED420 and MUED411; or (MUED472 and MUED471). Restriction: Permission of ARHU-School of Music department; and senior standing.

Field experiences to fulfill teaching requirements in K-12 music teache education program.

0101	Adam Grise	Seats (Total: 15)
	Contact instructor or department for details.	

MUED484 **Student Teaching in Elementary School: Music**

(Perm req)

Credits: 6 Grading Method: Sat-Fail

Corequisite: MUED494. Restriction: Permission of ARHU-School of Music department; and must be in Music Education program.

Fulfills elementary teaching requirements in K-12 music teacher education program. Limited to music education majors who have previously applied.

0101	Dana Varona	Seats (Total: 15)
	Contact instructor or department for details.	

MUED494 **Student Teaching in Secondary School: Music**

(Perm req)

Credits: 6 Grading Method: Sat-Fail

Corequisite: MUED484. Restriction: Permission of ARHU-School of Music department; and must be in Music Education program.

Fulfill secondary teaching requirements in K-12 music teacher education program. Limited to music education majors who have previously applied.

Students must pay a $750.00 student teaching fee.

0101	Dana Varona	Seats (Total: 15)
	Contact instructor or department for details.	

MUED698A **Current Trends in Music Education; Learning Theories in Music**

(Perm req)

Credits: 3 Grading Method: Regular

A survey of current and emerging philosophies, methodologies and curricula in music education and their implementation. The influence of educational and social changes and the expanding musical scene upon the music programs for children of all ages and for teacher education.

0101	Yo-Jung Han	Seats (Total: 12)
	Tu 5:00pm - 7:30pm	PAC 2130A

MUED729 **Doctoral Colloquium in Music Education**

(Perm req)

Credits: 1

Grading Method: Sat-Fail, Audit

For students in PhD Progam in Music Education. Meets approximately 4-5 times per semester to read and discuss current work in the field, interact with visiting speakers, share work in progress, learn new tools and methods, and hear research presentations from one another

0101	Michael Hewitt	Seats (Total: 10)
	TBA	PAC 2130A

MUED790 **Design and Analysis of Research in Music Education**

(Perm req)

Credits: 3

Grading Method: Regular

Prerequisite: Must have completed a college-level statistics course. And MUED690; or an equivalent master's level research in music education course.

Advanced applications of quantitative and qualitative social science research paradigms to research problems in the field of music education. Topics include the formation of researchable questions; the design of experimental, quasi-experimental, descriptive, and qualitative research studies; and the analysis and interpretation of research data.

0101	Kenneth Elpus	Seats (Total: 12)
	TBA	PAC 2130A

MUSC School of Music Fall 2018

MUSC001 **MUSP Course Evaluation**

(Perm req)

Credits: 0

Grading Method:

Contact department for information to register for this course.

MUSC099 **Performance Attendance**

(Perm req)

Credits: 0

Grading Method: Sat-Fail

Performance attendance laboratory for undergraduate music majors.

0101	Luke Spence	Seats (Total: 150)
	Contact instructor or department for details.	

MUSC102 **Class Piano**

(Perm req)

Credits: 2

Grading Method: Regular, Pass-Fail, Audit

Functional piano training for beginners. Development of techniques for school and community playing. Basic piano techniques; chord, arpeggio and scale techniques; melody and song playing; simple accompaniments, improvisation for accompaniments and rhythms; sight reading and transposition and playing by ear.

For MUSC majors only.

0101	Hui How TuTh 2:00pm - 3:15pm	Seats (Total: 14) PAC 1123
0201	Yao Lin MWF 11:00am - 11:50am	Seats (Total: 14) PAC 1123
0301	Jungyeon Yim MWF 1:00pm - 1:50pm	Seats (Total: 14) PAC 1123
0401	Hui How TuTh 3:15pm - 4:30pm	Seats (Total: 14) PAC 1123

MUSC102B **Class Piano**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Functional piano training for beginners. Development of techniques for school and community playing. Basic piano techniques; chord, arpeggio and scale techniques; melody and song playing; simple accompaniments, improvisation for accompaniments and rhythms; sight reading and transposition and playing by ear.

0101	Natnaree Suwanpotipra TuTh 11:00am - 12:15pm	Seats (Total: 14) PAC 1123

MUSC106 **Beginning Classical Guitar**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Introduction to classical guitar notation, technique, literature and performance. No previous musical experience required.

For students with no previous musical experience.

0101	Gerard Kunkel MW 11:00am - 11:50am	Seats (Total: 12) PAC 1230

MUSC123 **Movement for Singers**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Permission of ARHU-School of Music department.

Systematic exercises, improvisations and dances in conjunction with artistic vocal expression. Performance and critique of stage deportment, gestures and recital techniques.

0101	Carmen Balthrop	Seats (Total: 15)
	Tu 6:15pm - 7:45pm	TWS 1121

MUSC127 **Vocal Diction: Italian**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Permission of ARHU-School of Music department. Restriction: Must be in a major within the ARHU-School of Music department.

Augmentation of private voice study. Phonetics and diction for singers of Italian vocal literature.

0101	Diba Alvi	Seats (Total: 15)
	TuTh 2:00pm - 2:50pm	PAC 3164

MUSC128 **Sight Reading For Pianists**

(Perm req)

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

A course to give the piano major an opportunity to develop proficiency in sight reading at the keyboard.

0101	Natnaree Suwanpotipra	Seats (Total: 5)
	MW 10:00am - 10:50am	PAC 1123

MUSC129A **Ensemble; Chamber Music - Strings**

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

For MUSC majors only.

0101	David Salness	Seats (Total: 45)	
	TuTh 11:00am - 12:15pm	PAC 2201	Lab
1001	Sally McLain	Seats (Total: 10)	
	TuTh 11:00am - 12:15pm	Location: TBA	Lab
1101	Kenneth Slowik	Seats (Total: 10)	
	TuTh 11:00am - 12:15pm	Location: TBA	Lab

MUSC129B **Ensemble; Chamber Woodwinds**

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

For MUSC majors only.

0101	Mark Hill	Seats (Total: 40)	
	TuTh 11:00am - 12:15pm	PAC 2201	Lab

MUSC129C **Ensemble; Chamber Music - Brasses**

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

For MUSC majors only.

0101	Gregory Miller	Seats (Total: 30)	
	TuTh 11:00am - 12:15pm	PAC 2201	Lab
0701	Luke Spence	Seats (Total: 5)	
	TuTh 11:00am - 12:15pm	Location: TBA	Lab

MUSC129G **Ensemble; Balinese Gamelan**

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

0101	I Suadin	Seats (Total: 20)	
	Th 7:00pm - 8:30pm	PAC 1230	Lab

MUSC129K **Ensemble; Japanese Koto**

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

0101	Kyoko Okamoto	Seats (Total: 10)	
	Tu 5:30pm - 7:00pm	PAC 3160	Lab

MUSC129L **Ensemble; Advanced Japanese Koto**

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

0101	Kyoko Okamoto	Seats (Total: 4)	
	Tu 7:00pm - 8:30pm	PAC 3160	Lab

MUSC129P **Ensemble; Percussion**

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

0101	Lee Hinkle	Seats (Total: 15)	
	M 5:00pm - 7:30pm	PAC 2540	Lab
	W 5:15pm - 7:15pm	PAC 2540	Lab

MUSC129Q **Ensemble; Korean Percussion Ensemble**

Credits: 1 | Grading Method: Regular, Pass-Fail, Audit

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

0101	Sebastian Wang Th 7:00pm - 8:30pm	Seats (Total: 17) PAC 2170	

MUSC130 Survey of Music Literature

Credits: 3 | Grading Method: Regular, Audit | CORE: HA | General Education: DSHU

Restriction: Must not be in any of the following programs (Music (Professional Program); Music Education).

A study of the principles upon which music is based, and an introduction to the musical repertory performed in America today.

0101	William Robin MW 12:00pm - 12:50pm F 9:00am - 9:50am	Seats (Total: 13) TYD 0117 PAC 3168	Discussion
0102	William Robin MW 12:00pm - 12:50pm F 10:00am - 10:50am	Seats (Total: 15) TYD 0117 PAC 3168	Discussion
0103	William Robin MW 12:00pm - 12:50pm F 11:00am - 11:50am	Seats (Total: 15) TYD 0117 PAC 3168	Discussion
0104	William Robin MW 12:00pm - 12:50pm F 9:00am - 9:50am	Seats (Total: 15) TYD 0117 PAC 3160	Discussion
0105	William Robin MW 12:00pm - 12:50pm F 10:00am - 10:50am	Seats (Total: 15) TYD 0117 PAC 3160	Discussion

MUSC130H Survey of Music Literature

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HA | General Education: DSHU

Restriction: Must not be in any of the following programs (Music (Professional Program); Music Education).

A study of the principles upon which music is based, and an introduction to the musical repertory performed in America today.

For general honors students only.

0109	William Robin MW 12:00pm - 12:50pm F 11:00am - 11:50am	Seats (Total: 10) TYD 0117 PAC 3160	 Discussion

MUSC130S **Survey of Music Literature**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HA | General Education: DSHU

Restriction: Must not be in any of the following programs (Music (Professional Program); Music Education).

A study of the principles upon which music is based, and an introduction to the musical repertory performed in America today.

Restricted to College Park Scholars - Arts.

0101	William Robin MW 12:00pm - 12:50pm F 9:00am - 9:50am	Seats (Total: 7) TYD 0117 PAC 3168	 Discussion

MUSC140 **Music Fundamentals I**

Credits: 3 | Grading Method: Regular, Audit | CORE: HA | General Education: DSSP

Restriction: Must not be in any of the following programs (Music (Professional Program); Music Education).

Introductory theory course. Notation, scales, intervals, triads, rhythm, form and basic aural skills.

0101	John Boatright MW 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 12) PAC 2168 PAC 1108	 Discussion
0102	John Boatright MW 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 13) PAC 2168 PAC 1108	 Discussion

0201	John Boatright MW 12:00pm - 12:50pm F 12:00pm - 12:50pm	Seats (Total: 12) PAC 2168 PAC 1108	 Discussion
0202	John Boatright MW 12:00pm - 12:50pm F 1:00pm - 1:50pm	Seats (Total: 13) PAC 2168 PAC 1108	 Discussion
FC01	Quinn Dizon Tu 3:00pm - 4:15pm Th 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 13) PAC 3160 PAC 1108	 Lab

MUSC150 **Theory of Music I**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Departmental audition and entrance examination. Restriction: Must be in one of the following programs (Music (Liberal Arts Program); Music (Jazz Performance Option); Music (Winds & Percussions Performance Option); Music (Voice Performance Option); Music Composition; Music (Professional Program); Music (Piano Performance Option); Music Performance-Winds and Percussion; Music Theory and Composition; Music Performance-Piano; Music Performance-Jazz Studies; Music Performance-Voice; Music Performance-Strings; Music (Strings Performance Option)).

A study of basic concepts and skills in tonal melody and harmony through analysis and composition.

0101	Richard Layton MWF 8:00am - 8:50am TuTh 8:25am - 9:15am	Seats (Total: 6) PAC 2160 PAC 2160	 Lab
0102	Richard Layton MWF 8:00am - 8:50am TuTh 8:25am - 9:15am	Seats (Total: 6) PAC 2160 PAC 2164	 Lab
0201	Richard Layton MWF 9:00am - 9:50am TuTh 8:25am - 9:15am	Seats (Total: 11) PAC 2160 PAC 2168	 Lab
0202	Richard Layton MWF 9:00am - 9:50am TuTh 9:30am - 10:20am	Seats (Total: 11) PAC 2160 PAC 2168	 Lab

0301	Michael Fili MWF 10:00am - 10:50am TuTh 9:30am - 10:20am	Seats (Total: 11) PAC 2160 PAC 2164	 Lab
0302	Michael Fili MWF 10:00am - 10:50am TuTh 9:30am - 10:20am	Seats (Total: 11) PAC 2160 PAC 2160	 Lab
0401	Jared Kenlon MWTh 6:00pm - 7:15pm	Seats (Total: 11) PAC 3168	

MUSC202 **Intermediate Class Piano I**

(Perm req)

Credits: 2 Grading Method: Regular

Prerequisite: MUSC103; or must have equivalent piano training.

Advanced keyboard techniques. Continuation of skills introduced in MUSC103. Transposition, modulation and sight reading; methods of teaching functional piano.

Only for voice and instrumental principals with limited piano experience.

0101	Jungyeon Yim MWF 9:00am - 9:50am	Seats (Total: 15) PAC 1123	

MUSC205 **History of Popular Music, 1950-Present**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HA General Education: DSHU

A historical survey of rock music (blues, rock, soul, metal, rap, etc.) from circa 1950 to the present, with emphasis on popular music as music and popular music as social history.

0101	Nicole Powlison MW 11:00am - 11:50am F 9:00am - 9:50am	Seats (Total: 20) ARC 0204 PAC 2164	 Discussion
0102	Nicole Powlison MW 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 20) ARC 0204 PAC 2164	 Discussion
0103	Nicole Powlison MW 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 20) ARC 0204 PAC 2164	 Discussion

0104	Nicole Powlison MW 11:00am - 11:50am F 9:00am - 9:50am	Seats (Total: 20) ARC 0204 PAC 2168	Discussion
0105	Nicole Powlison MW 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 20) ARC 0204 PAC 2168	Discussion
0106	Nicole Powlison MW 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 20) ARC 0204 PAC 2168	Discussion
0107	Nicole Powlison MW 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 20) ARC 0204 PAC 2200	Discussion
0108	Nicole Powlison MW 11:00am - 11:50am F 12:00pm - 12:50pm	Seats (Total: 20) ARC 0204 PAC 2200	Discussion
0109	Nicole Powlison MW 11:00am - 11:50am F 1:00pm - 1:50pm	Seats (Total: 20) ARC 0204 PAC 2200	Discussion
0110	Nicole Powlison MW 11:00am - 11:50am F 9:00am - 9:50am	Seats (Total: 20) ARC 0204 PAC 3164	Discussion
0111	Nicole Powlison MW 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 20) ARC 0204 PAC 3164	Discussion
0112	Nicole Powlison MW 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 20) ARC 0204 PAC 3164	Discussion

MUSC210 **The Impact of Music on Life**

Credits: 3 Grading Method: Regular CORE: HA, D General Education: DSHU, DVUP

Credit only granted for: MUET210 or MUSC210. Formerly: MUET210.

Music as a part of culture. Materials drawn from traditions throughout the globe to illustrate issues of historical and contemporary significance, including the impact of race, class and gender on the study of music.

0101	Julia Topper MW 1:00pm - 1:50pm F 10:00am - 10:50am	Seats (Total: 20) ARC 0204 PAC 1809	Discussion
0102	Julia Topper MW 1:00pm - 1:50pm F 11:00am - 11:50am	Seats (Total: 20) ARC 0204 PAC 1809	Discussion
0103	Julia Topper MW 1:00pm - 1:50pm F 12:00pm - 12:50pm	Seats (Total: 20) ARC 0204 PAC 1809	Discussion
0104	Julia Topper MW 1:00pm - 1:50pm F 1:00pm - 1:50pm	Seats (Total: 20) ARC 0204 PAC 1809	Discussion
0105	Julia Topper MW 1:00pm - 1:50pm F 2:00pm - 2:50pm	Seats (Total: 20) ARC 0204 PAC 1809	Discussion
0106	Julia Topper MW 1:00pm - 1:50pm F 3:00pm - 3:50pm	Seats (Total: 20) ARC 0204 PAC 1809	Discussion
0107	Julia Topper MW 1:00pm - 1:50pm F 12:00pm - 12:50pm	Seats (Total: 20) ARC 0204 PAC 2168	Discussion
0108	Julia Topper MW 1:00pm - 1:50pm F 1:00pm - 1:50pm	Seats (Total: 20) ARC 0204 PAC 2168	Discussion
0109	Julia Topper MW 1:00pm - 1:50pm F 2:00pm - 2:50pm	Seats (Total: 20) ARC 0204 PAC 2168	Discussion

0110	Julia Topper MW 1:00pm - 1:50pm F 12:00pm - 12:50pm	Seats (Total: 20) ARC 0204 PAC 3168	Discussion
0111	Julia Topper MW 1:00pm - 1:50pm F 1:00pm - 1:50pm	Seats (Total: 20) ARC 0204 PAC 3168	Discussion
0112	Julia Topper MW 1:00pm - 1:50pm F 2:00pm - 2:50pm	Seats (Total: 20) ARC 0204 PAC 3168	Discussion

MUSC215 **World Popular Musics and Identity**

Credits: 3	Grading Method: Regular, Audit	CORE: HA, D	General Education: DSHU, DVUP

Credit only granted for: MUET200 or MUSC215. Formerly: MUET200.

Focus on popular musics in different cultures with an emphasis on cross-cultural comparisons and analysis of how musics and identity intersect.

0101	Laura Schnitker MW 12:00pm - 12:50pm F 12:00pm - 12:50pm	Seats (Total: 20) SKN 0200 EDU 2101	Discussion
0102	Laura Schnitker MW 12:00pm - 12:50pm F 1:00pm - 1:50pm	Seats (Total: 20) SKN 0200 EDU 2101	Discussion
0103	Laura Schnitker MW 12:00pm - 12:50pm F 2:00pm - 2:50pm	Seats (Total: 20) SKN 0200 EDU 2101	Discussion
0104	Laura Schnitker MW 12:00pm - 12:50pm F 1:00pm - 1:50pm	Seats (Total: 20) SKN 0200 KNI 1103	Discussion
0105	Laura Schnitker MW 12:00pm - 12:50pm F 2:00pm - 2:50pm	Seats (Total: 20) SKN 0200 KNI 1103	Discussion

0106	Laura Schnitker MW 12:00pm - 12:50pm F 3:00pm - 3:50pm	Seats (Total: 20) SKN 0200 KNI 1103	Discussion
0107	Laura Schnitker MW 12:00pm - 12:50pm F 11:00am - 11:50am	Seats (Total: 20) SKN 0200 EDU 2119	Discussion
0108	Laura Schnitker MW 12:00pm - 12:50pm F 12:00pm - 12:50pm	Seats (Total: 20) SKN 0200 EDU 2119	Discussion
0109	Laura Schnitker MW 12:00pm - 12:50pm F 1:00pm - 1:50pm	Seats (Total: 20) SKN 0200 EDU 2119	Discussion

MUSC220 Selected Musical Cultures of the World

Credits: 3 Grading Method: Regular CORE: HA, D General Education: DSHU, DVUP

Credit only granted for: MUET220 or MUSC220. Formerly: MUET220.

A survey of selected musical cultures of the world, such as India, Japan, China, Indonesia, West Africa, Eastern Europe and the Near East.

0101	Siv Lie MW 1:00pm - 1:50pm F 12:00pm - 12:50pm	Seats (Total: 20) JMZ 0220 PAC 3164	Discussion
0102	Siv Lie MW 1:00pm - 1:50pm F 1:00pm - 1:50pm	Seats (Total: 20) JMZ 0220 PAC 3164	Discussion
0103	Siv Lie MW 1:00pm - 1:50pm F 2:00pm - 2:50pm	Seats (Total: 20) JMZ 0220 PAC 3164	Discussion
0104	Siv Lie MW 1:00pm - 1:50pm F 12:00pm - 12:50pm	Seats (Total: 20) JMZ 0220 PAC 2164	Discussion

0105	Siv Lie MW 1:00pm - 1:50pm F 1:00pm - 1:50pm	Seats (Total: 20) JMZ 0220 PAC 2164	Discussion
0106	Siv Lie MW 1:00pm - 1:50pm F 2:00pm - 2:50pm	Seats (Total: 20) JMZ 0220 PAC 2164	Discussion
FC01	Paul Covey MW 4:30pm - 5:45pm	Seats (Total: 40) ASY 3203	

MUSC227 **Vocal Diction: German**

(Perm req)

Credits: 1 Grading Method: Regular

Prerequisite: Permission of ARHU-School of Music department. Restriction: Must be in a major within ARHU-School of Music department.

Augmentation of private study. Phonetics and diction for singers of German vocal literature.

0101	Diba Alvi TuTh 11:00am - 11:50am	Seats (Total: 15) PAC 3164

MUSC228 **Introduction to Accompanying for Pianists**

(Perm req)

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

A course to introduce the piano major to accompanying at an intermediat level of difficulty. Class instruction will center on rehearsal and coaching geared toward performance, and will be supplemented by experience working as an accompanist in voice classes or applied studios.

0101	Robert McReynolds Tu 4:00pm - 6:00pm	Seats (Total: 10) PAC 2126

MUSC229A **Ensemble; Orchestra**

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

Audition required before permission of department will be granted, contact instructor to make arrangements.

0101	Jose-Luis Novo	Seats (Total: 70)	
	TuTh 3:30pm - 6:30pm	PAC 1230	Lab

MUSC229D **Ensemble; Wind Orchestra**

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

Open by audition, contact instructor to make arrangements.

0101	Michael Votta	Seats (Total: 50)	
	TuTh 3:30pm - 6:30pm	PAC 2540	Lab

MUSC229E **Ensemble; Wind Ensemble**

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

Open by audition, contact instructor to make arrangements.

0101	Andrea Brown	Seats (Total: 75)	
	MWF 11:00am - 12:30pm	PAC 2540	Lab

MUSC229F **Ensemble; Marching Band**

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

Open by audition.

0101	Andrea Brown	Seats (Total: 300)	
	MWF 3:00pm - 5:00pm	PAC 2540	Lab

MUSC229G **Ensemble; Marching Band Repertoire**

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

Corequisite: MUSC 229F.

0101	Andrea Brown	Seats (Total: 300)	
	Tu 7:00pm - 9:00pm	PAC 2540	Lab

MUSC229I **Ensemble; Marching Band Auxiliary**

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

Corequisite: MUSC 229F.

0101	Andrea Brown	Seats (Total: 50)	
	TuTh 6:30pm - 8:30pm	PAC 2540	Lab

MUSC229J **Ensemble; Jazz Ensemble**

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

Audition required before permission of department will be granted, contact instructor to make arrangements.

0101	Christopher Vadala	Seats (Total: 25)	
	MW 5:30pm - 7:15pm	PAC 1230	Lab
0201	Christopher Vadala	Seats (Total: 30)	
	MW 1:00pm - 2:20pm	PAC 1230	Lab
0301	Christopher Vadala	Seats (Total: 30)	
	M 7:30pm - 9:30pm	PAC 1230	Lab

MUSC229P **Ensemble; Pep Band**

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

Permission of Instructor.

0101	Elijah Osterloh	Seats (Total: 60)	
	Contact instructor or department for details.		

MUSC229R **Ensemble; Repertoire Orchestra**

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

Audition required before permission of department will be granted, contact instructor to make arrangements.

0101	Tiffany Lu	Seats (Total: 50)	
	MW 3:00pm - 5:00pm	PAC 1230	Lab

MUSC229U **Ensemble; University Band**

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

Open by audition, contact instructor to make arrangements.

0101	Craig Potter	Seats (Total: 100)	
	W 7:30pm - 9:30pm	PAC 2540	Lab

MUSC229Z **Ensemble; Jazz Combo**

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

Audition required before permission of department will be granted, contact instructor to make arrangements.

0101	Gerard Kunkel Contact instructor or department for details.	Seats (Total: 10)	
0201	Thomas Baldwin Contact instructor or department for details.	Seats (Total: 10)	
0301	Michael Kuhl Contact instructor or department for details.	Seats (Total: 10)	
0401	Michael Quinlivan Contact instructor or department for details.	Seats (Total: 10)	

MUSC248D **Selected Topics in Music; Analysis of Hip Hop Music**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Designed to allow a student of theory or music history to pursue a specialized topic or project under the supervision of a faculty member.

0101	William Evans W 11:00am - 12:15pm	Seats (Total: 12) PAC 2164	

MUSC250 **Advanced Theory of Music I**

(Perm req)

Credits: 4 Grading Method: Regular, Audit

Prerequisite: Minimum grade of C- in MUSC151.

A continuation of MUSC 151, with further study of chromatic and modulatory techniques of the nineteenth century. Emphasis on sight singing, ear training, analysis and compositional skills.

0101	Michael Oberhauser TuTh 8:00am - 9:15am MW 8:00am - 8:50am	Seats (Total: 6) PAC 3160 PAC 2164	 Lab
0102	Michael Oberhauser TuTh 8:00am - 9:15am MW 9:00am - 9:50am	Seats (Total: 6) PAC 3160 PAC 2164	 Lab

0201	Dora Hanninen TuTh 9:30am - 10:45am MW 9:00am - 9:50am	Seats (Total: 6) PAC 3168 PAC 3164	 Lab
0202	Dora Hanninen TuTh 9:30am - 10:45am MW 9:00am - 9:50am	Seats (Total: 6) PAC 3168 PAC 3168	 Lab
0301	Mark Wilson TuTh 9:30am - 10:45am MW 10:00am - 10:50am	Seats (Total: 6) PAC 3164 PAC 3164	 Lab
0302	Mark Wilson TuTh 9:30am - 10:45am MW 10:00am - 10:50am	Seats (Total: 6) PAC 3164 PAC 3168	 Lab

MUSC269R **Special Topics in Study Abroad II; From Elvis to Rap: 50 Years of History As Seen Through Rock Music**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

MUSC310 **Music History I**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MUSC151; and permission of ARHU-School of Music department. Credit only granted for: MUSC310 or MUSC331. Formerly: MUSC331.

A historical study of Western music from Antiquity to 1600.

0101	Barbara Haggh-Huglo MW 2:00pm - 2:50pm F 1:00pm - 1:50pm	Seats (Total: 25) PAC 2201 PAC 2160	 Discussion
0102	Barbara Haggh-Huglo MW 2:00pm - 2:50pm F 2:00pm - 2:50pm	Seats (Total: 25) PAC 2201 PAC 2160	 Discussion

0103	Barbara Haggh-Huglo	Seats (Total: 25)	
	MW 2:00pm - 2:50pm	PAC 2201	
	F 3:00pm - 3:50pm	PAC 2160	Discussion

MUSC329A **Ensemble; University of Maryland Chorale**

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

Audition required before permission of department will be granted, contact instructor to make arrangements. Monthly evening rehearsals will be scheduled as announced.

0101	Minji Kim, Jonathan King	Seats (Total: 75)	
	TuTh 4:30pm - 6:00pm	PAC 2201	Lab

MUSC329B **Ensemble; Chamber Singers**

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

Audition required before permission of department will be granted, contact instructor to make arrangements. Monthly evening rehearsals will be scheduled as announced.

0101	Edward Maclary	Seats (Total: 50)	
	MW 3:00pm - 3:50pm	PAC 2201	Lab
	TuTh 3:30pm - 4:20pm	PAC 2201	Lab

MUSC329E **Ensemble; Gospel Choir**

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

0101	Anne Carswell	Seats (Total: 60)	
	Th 7:00pm - 10:00pm	PAC 2201	Lab

MUSC329M **Ensemble; Men's Chorus**

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

Monthly evening rehearsals will be scheduled as announced.

0101	Timothy Keeler	Seats (Total: 40)	
	MWF 12:00pm - 12:50pm	PAC 1230	Lab
	Sharing with Craig Arnold's approval even though there are two different instructors.		

MUSC329O **Ensemble; Opera Chorus**

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

0101	Edward Maclary	Seats (Total: 30)	
	F 4:00pm - 6:00pm	PAC 2170	Lab

MUSC329W **Ensemble; Treble Choir**

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

Monthly evening rehearsals will be scheduled as announced.

0101	Kenneth Elpus	Seats (Total: 60)	
	MWF 12:00pm - 12:50pm	PAC 2201	Lab

MUSC330 **Music History III**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MUSC320; and permission of ARHU-School of Music department.

A historical study of Western music from 1800 to present.

0101	William Robin MW 2:00pm - 2:50pm F 1:00pm - 1:50pm	Seats (Total: 15) PAC 2200 PAC 3160	 Discussion
0102	William Robin MW 2:00pm - 2:50pm F 2:00pm - 2:50pm	Seats (Total: 15) PAC 2200 PAC 3160	 Discussion
0103	William Robin MW 2:00pm - 2:50pm F 3:00pm - 3:50pm	Seats (Total: 15) PAC 2200 PAC 3160	 Discussion

MUSC369M **Special Topics in Study Abroad III; Masterpieces of Italian Opera**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

MUSC379 **Opera Workshop**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail

Open to music and non-music majors (by audition). Operatic production and performance, performance techniques and coaching, stage direction, set design, costume design and make-up. Repertory will include smaller operatic works, excerpts or scenes.

0101	Amanda Consol MW 4:00pm - 6:00pm	Seats (Total: 15) PAC 2170	 Lab

MUSC386 **Experiential Learning**

(Perm req)

Credits: 6 Grading Method: Regular, Pass-Fail

Prerequisite: Permission of ARHU-School of Music department. Restriction: Junior standing or higher.

Contact department for information to register for this course.

MUSC388 **Music Internship**

(Perm req)

Credits: 3 Grading Method: Regular

Pre-professional field work in music.

0201	Eric Kutz Contact instructor or department for details.	Seats (Total: 5)
0301	Edward Maclary Contact instructor or department for details.	Seats (Total: 5)

MUSC389 **Music Internship Analysis**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Documentation and evaluation of field work experience.

0101	Lori DeBoy Contact instructor or department for details.	Seats (Total: 5)
0201	Michael Hewitt Contact instructor or department for details.	Seats (Total: 1)

MUSC400S **Music Pedagogy**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MUSP315; and permission of ARHU-School of Music department.

Conference course. A study of major pedagogical treatises in music, and an evaluation of pedagogical techniques, materials, and procedures.

0101	Rebecca Henry M 5:00pm - 7:30pm	Seats (Total: 35) PAC 2201

MUSC428 **Repertoire Coaching of Vocal or Chamber Music**

(Perm req)

Credits: 2 Grading Method: Regular

A course for piano students who wish to go further than the work offered in MUSC128, MUSC228 and MUSC328 by becoming specialists in the areas of vocal coaching or chamber music coaching. Elements of pedagogy, conducting and responsible artistic decision-making for the entire musical production.

0101	Rita Sloan Contact instructor or department for details.	Seats (Total: 5)

MUSC438X **Area Studies in Ethnomusicology; Music of China and Japan**

(Perm req)

Credits: 3 Grading Method: Regular

Advanced study of musics in selected parts of the world.

0101	John Witzleben W 3:30pm - 6:00pm	Seats (Total: 12) PAC 3110A

MUSC443 **Solo Vocal Literature**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MUSC330 and MUSC331; or students who have taken courses with comparable content may contact the department.

The study of solo vocal literature from the Baroque Cantata to the Art Song of the present. The Lied, Melodie, vocal chamber music and the orchestral song are examined.

0101	Diba Alvi TuTh 9:30am - 10:45am	Seats (Total: 10) PAC 2201

MUSC444 **Wind and Percussion Literature**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Permission of ARHU-School of Music department. Corequisite: MUSP420 or MUSP419.

Recital program notes and written projects in wind or percussion literature.

Contact department for information to register for this course.

MUSC446 **String Literature**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MUSP316; and permission of ARHU-School of Music department.

Recital program notes and written projects in string literature.

Contact department for information to register for this course.

MUSC448 **Selected Topics in Music**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

MUSC448E **Selected Topics in Music; The Entrepreneurial Musician**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

0101	Lee Hinkle	Seats (Total: 15)
	TuTh 9:30am - 10:45am	PAC 2200

MUSC448K **Selected Topics in Music; Keyboard Skills for Vocalists**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

This course is for graduate vocal majors only.

0101	Rita Sloan	Seats (Total: 10)
	Contact instructor or department for details.	

MUSC448P **Selected Topics in Music; How to Win an Orchestral Audition**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

0101	Robert DiLutis	Seats (Total: 15)
	M 3:00pm - 4:30pm	PAC 3168

MUSC448T **Selected Topics in Music; Critical Concepts in Music Theory**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

0101	Dora Hanninen	Seats (Total: 4)
	TuTh 2:00pm - 3:15pm	PAC 3168

MUSC448W **Selected Topics in Music; Instrumental Pedagogy**

(Perm req)

Credits: 1 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSC450 **Musical Form**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MUSC251.

A study of the principles of organization in music with emphasis on eighteenth and nineteenth century European music. Reading and analysis of scores exemplifying the musical forms.

0101	Daniel Zimmerman	Seats (Total: 25)
	TuTh 2:00pm - 3:15pm	PAC 2164

MUSC453 **Jazz Improvisation I**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MUSC251; or students who have taken courses with comparable content may contact the department. And permission of ARHU-School of Music department. Credit only granted for: MUSC345 or MUSC453. Formerly: MUSC345.

Jazz theory, notational conventions, improvisation techniques, reading and analysis of music, and performance in small combo format.

0101	Michael Quinlivan	Seats (Total: 8)
	M 7:30pm - 9:30pm Contact instructor or department for details.	PAC 1208

MUSC455 **Theory of Jazz**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MUSC250; or permission of ARHU-School of Music department. Restriction: Must be in a major within ARHU-School of Music department.

Analysis of jazz harmony, with emphasis on principles of substitution, reharmonization, and syntax. Topics may also include chord/scale relationships, phrasing and articulation, notation, and introductory arranging concepts such as orchestration and form.

0101	Timothy Powell	Seats (Total: 12)
	TuTh 3:30pm - 4:45pm	PAC 3168

MUSC460 **Tonal Counterpoint I**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MUSC251; or permission of ARHU-School of Music department.

A course in Eighteenth-Century contrapuntal techniques, analysis and original composition of two-voice dances, preludes, and inventions. Includes an introduction to the study of fugue and canon.

0101	James Fry	Seats (Total: 15)
	TuTh 9:30am - 10:45am	PAC 3160

MUSC467 **Piano Pedagogy I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Permission of ARHU-School of Music department.

A study of major pedagogical treatises in music, and an evaluation of pedagogical techniques, materials, and procedures.

0101	Bradford Gowen	Seats (Total: 15)
	MW 11:00am - 12:15pm	PAC 2170

MUSC469C **Orchestral Excerpts for String Players; Violin**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

In-depth study of the orchestral excerpts required for professional orchestra auditions.

Restriction: permission of department.

0101	David Salness	Seats (Total: 10)
	Contact instructor or department for details.	

MUSC469D **Orchestral Excerpts for String Players; Viola**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

In-depth study of the orchestral excerpts required for professional orchestra auditions.

Restriction: permission of department.

0101	Timothy MacDuff	Seats (Total: 10)
	Contact instructor or department for details.	

MUSC469F **Orchestral Excerpts for String Players; Bass**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

In-depth study of the orchestral excerpts required for professional orchestra auditions.

0101	Robert Oppelt W 4:30pm - 5:45pm	Seats (Total: 15) Location: TBA

MUSC469V **Orchestral Excerpts for String Players; Harp**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

In-depth study of the orchestral excerpts required for professional orchestra auditions.

0101	Sarah Fuller Contact instructor or department for details.	Seats (Total: 10)

MUSC471 **Contemporary Compositional Techniques**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MUSC470; and permission of ARHU-School of Music department.

Continuation of MUSC470, with emphasis on the analysis of individual works written since 1945.

0101	Thomas DeLio W 5:30pm - 8:00pm	Seats (Total: 15) PAC 2164

MUSC490 **Conducting**

(Perm req)

Credits: 2 Grading Method: Regular

Prerequisite: MUSC251.

Vocal and instrumental baton techniques.

0101	Kathryn Hylton MWF 11:00am - 11:50am	Seats (Total: 13) PAC 2201
0201	Aaron Peisner MWF 1:00pm - 1:50pm	Seats (Total: 13) PAC 2201

MUSC499 **Independent Studies**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Independent research on a topic chosen in consultation with the instructor, which may culminate in a paper or appropriate project.

Contact department for information to register for this course.

MUSC550 **Theory of Music Graduate Review**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of ARHU-School of Music department.

Music theory review for graduate students:aural training, counterpoint, basic diatonic harmony, chromatic harmony, and analysis of complete works.

0101	James Fry TuTh 2:00pm - 3:15pm	Seats (Total: 15) PAC 2160

MUSC601 **Advanced English Lyric Diction**

Credits: 1 Grading Method: Regular, Audit

Restriction: Must be in one of the following programs (Music - Doctoral (Doctoral); Music - Master (Master's)) . And permission of instructor; or admission to graduate voice program.

Concepts, strategies and techniques for singing operatic, oratorio and song literature in English: stress patterns, linkage, stressed and non stressed vowels, dipthongs, placement of consonants and vowels, and communication of text with emphasis on current performance practices. Use of the International Phonetic Alphabet (IPA) will be stressed.

0101	Jennifer Cabot Tu 10:30am - 12:00pm	Seats (Total: 15) PAC 2170

MUSC604 **Advanced French Lyric Diction**

Credits: 1 Grading Method: Regular, Audit

Restriction: Must be in one of the following programs (Music - Doctoral (Doctoral); Music - Master (Master's)) . And permission of instructor; or admission to graduate voice program.

Concepts, strategies and techniques for singing operatic and song literature in French: phoneticization, formation and singing of the vowel-sounds, semi-consonants, and consonants; the liaison; legato singing in French; the hiatus, mute and aspirate 'h'; stress and word rhythm. Use of the International Phonetic Alphabet (IPA) will be stressed.

0101	Gran Wilson	Seats (Total: 15)
	Tu 10:30am - 12:00pm	PAC 1218

MUSC605 **Opera Repertory I**

(Perm req)

Credits: 1 Grading Method: Regular

Prerequisite: MUSC602; or permission of instructor. Restriction: Must be in one of the following programs (Music - Doctoral (Doctoral); Music - Master (Master's)).

Advanced vocal coaching of selections from the Italian, French, German, and English opera repertory: musical accuracy; language facility; diction clarity; and dramatic interpretation.

0101	Craig Kier	Seats (Total: 10)
	Th 10:30am - 12:00pm	PAC 2160

MUSC608 **Chamber Music Repertory; Chamber Music Repertoire**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Prerequisite: graduate standing as a major in performance. A study, through performance, of diversified chamber music for standard media.

Contact department for information to register for this course.

MUSC609 **Piano Chamber Music Practicum and Analysis**

(Perm req)

Credits: 2 Grading Method: Regular

Study of repertoire written for piano in duos or with several instruments, to develop an accompanists advanced performance skills in listening, balance, nuance in dynamics, harmonic motion and phrasing.

0101	Rita Sloan	Seats (Total: 10)
	Contact instructor or department for details.	

MUSC611 **Opera Techniques I**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Corequisite: MUSC601. Restriction: Permission of director of opera; and must be in one of the following programs (Music - Doctoral (Doctoral); Music - Master (Master's)).

Techniques for opera performance: Improvisation; Acting I, Scene Study I; and Movement I. Practical application of styles and techniques to operatic repertoire.

0101	Craig Kier	Seats (Total: 10)	
	TBA	PAC 2170	
	TBA	PAC 1218	Lab

MUSC613 **Opera Techniques III**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Prerequisite: Minimum grade of B- in MUSC612; and permission of Director of Opera required. Corequisite: MUSC603 and MUSC605. Restriction: Must be in one of the following programs (Music - Doctoral (Doctoral); Music - Master (Master's)).

Continuation of MUSC 612. Techniques for opera performance: Scene Study III; Movement III; and Shakespeare.

0101	Craig Kier	Seats (Total: 10)	
	TBA	PAC 2170	
	TBA	PAC 1218	Lab

MUSC629A **Ensemble; Orchestra**

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small and large instrumental ensembles.

Audition required before permission of department will be granted, contact instructor to make arrangements.

0101	Jose-Luis Novo	Seats (Total: 50)	
	TuTh 3:30pm - 6:30pm	PAC 1230	Lab

MUSC629C **Ensemble; Wind Ensemble**

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small and large instrumental ensembles.

0101	Michael Votta	Seats (Total: 20)	
	MWF 11:00am - 12:30pm	PAC 2540	Lab

MUSC629F **Ensemble; Marching Band**

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small and large instrumental ensembles.

0101	Andrea Brown	Seats (Total: 175)	
	MWF 3:00pm - 5:00pm	PAC 2540	Lab

MUSC629G **Ensemble; Balinese Gamelan**

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small and large instrumental ensembles.

0101	I Suadin	Seats (Total: 5)	
	Th 7:00pm - 8:30pm	PAC 1230	Lab

MUSC629H **Ensemble; Harp**

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small and large instrumental ensembles.

0101	Sarah Fuller	Seats (Total: 1)	
	TuTh 11:00am - 12:15pm	Location: TBA	Lab

MUSC629J **Ensemble; Jazz Ensemble**

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small and large instrumental ensembles.

Audition required before permission of department will be granted, contact instructor to make arrangements.

0101	Christopher Vadala	Seats (Total: 20)	
	MW 5:30pm - 7:15pm	PAC 1230	Lab
0201	Christopher Vadala	Seats (Total: 10)	
	MW 1:00pm - 2:20pm	PAC 1230	Lab
0301	Christopher Vadala	Seats (Total: 10)	
	M 7:30pm - 9:30pm	PAC 1230	Lab

MUSC629K **Ensemble; Japanese Koto**

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small and large instrumental ensembles.

0101	Kyoko Okamoto	Seats (Total: 2)	
	Tu 5:30pm - 7:00pm	PAC 3160	Lab

MUSC629L **Ensemble; Advanced Japanese Koto**

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small and large instrumental ensembles.

0101	Kyoko Okamoto	Seats (Total: 4)	
	Tu 7:00pm - 8:30pm	PAC 3160	Lab

MUSC629P **Ensemble; Percussion Ensemble**

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small and large instrumental ensembles.

0101	Lee Hinkle	Seats (Total: 5)	
	M 5:00pm - 7:30pm	PAC 2540	Lab
	W 5:15pm - 7:15pm	PAC 2540	Lab
0201	Lee Hinkle	Seats (Total: 5)	
	Contact instructor or department for details.		

MUSC629Q **Ensemble; Korean Percussion Ensemble**

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small and large instrumental ensembles.

0101	Sebastian Wang	Seats (Total: 5)	
	Th 7:00pm - 8:30pm	PAC 2170	

MUSC629R **Ensemble; Repertoire Orchestra**

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small and large instrumental ensembles.

Audition required before permission of department will be granted, contact instructor to make arrangements.

0101	Tiffany Lu	Seats (Total: 10)	
	MW 3:00pm - 5:00pm	PAC 1230	Lab

MUSC629U **Ensemble; University Band**

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small and large instrumental ensembles.

Open by audition, contact instructor to make arrangements.

0101	Craig Potter	Seats (Total: 10)	
	W 7:30pm - 9:30pm	PAC 2540	Lab

MUSC629W **Ensemble; Wind Orchestra**

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small and large instrumental ensembles.

Open by audition, contact instructor to make arrangements.

0101	Michael Votta	Seats (Total: 30)	
	TuTh 3:30pm - 6:30pm	PAC 2540	Lab

MUSC629Z **Ensemble; Jazz Combo**

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small and large instrumental ensembles.

Audition required before permission of department will be granted, contact instructor to make arrangements.

0101	Gerard Kunkel	Seats (Total: 10)
	Contact instructor or department for details.	
0201	Thomas Baldwin	Seats (Total: 10)
	Contact instructor or department for details.	
0301	Michael Kuhl	Seats (Total: 10)
	Contact instructor or department for details.	
0401	Michael Quinlivan	Seats (Total: 10)
	Contact instructor or department for details.	

MUSC643 **Seminar in Solo Vocal Literature I**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MUSC443; or students who have taken courses with comparable content may contact the department.

An intensive study of solo vocal literature from its origin to the present.

0101	Rita Sloan W 3:00pm - 5:30pm	Seats (Total: 10) PAC 2200

MUSC646 **Introduction to Musicology**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Graduate student standing in in the School of Music. Credit only granted for: MUSC648 or MUSC646.

An introduction to the basics of musicological research, including sources, methodologies, and techniques, as well as the fundamentals of both academic and non-academic writing.

0101	Olga Haldey TuTh 11:00am - 12:15pm	Seats (Total: 10) PAC 3110A

MUSC648 **Seminar in Music Research; Seminar in Music Research**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

An introduction to graduate study in the history and literature of music. Bibliography and methodology of systematic and historical musicology.

0101	Paul Covey Tu 7:00pm - 9:30pm	Seats (Total: 15) PAC 2515C
0201	Paul Covey M 7:00pm - 9:30pm	Seats (Total: 15) PAC 2515C
0301	Nicole Powlison TuTh 9:30am - 10:45am	Seats (Total: 15) PAC 2515C
0401	Paul Covey Th 7:00pm - 9:30pm	Seats (Total: 15) PAC 2515C

MUSC649A **Ensemble; University of Maryland Chorale**

(Perm req)

Credits: 1 Grading Method: Regular

Audition required before permission of department will be granted, contact instructor to make arrangements.

0101	Jonathan King, Minji Kim	Seats (Total: 10)	
	TuTh 4:30pm - 6:00pm	PAC 2201	Lab

MUSC649B **Ensemble; Chamber Singers**

(Perm req)

Credits: 1 Grading Method: Regular

Audition required before permission of department will be granted, contact instructor to make arrangements.

0101	Edward Maclary	Seats (Total: 10)	
	MW 3:00pm - 3:50pm	PAC 2201	Lab
	TuTh 3:30pm - 4:20pm	PAC 2201	Lab

MUSC649E **Ensemble; Ensemble: Gospel Choir**

Credits: 1 Grading Method: Regular

0101	Anne Carswell	Seats (Total: 10)	
	Th 7:00pm - 10:00pm	PAC 2201	Lab

MUSC649M **Ensemble; Men's Chorus**

Credits: 1 Grading Method: Regular

0101	Timothy Keeler	Seats (Total: 10)	
	MWF 12:00pm - 12:50pm	PAC 1230	Lab

MUSC649O **Ensemble; Opera Chorus**

(Perm req)

Credits: 1 Grading Method: Regular

0101	Edward Maclary	Seats (Total: 15)	
	F 4:00pm - 6:00pm	PAC 2170	Lab

MUSC649W **Ensemble; Treble Choir**

Credits: 1 Grading Method: Regular

0101	Kenneth Elpus	Seats (Total: 10)	
	MWF 12:00pm - 12:50pm	PAC 2201	Lab

MUSC651 **The Theories of Heinrich Schenker**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MUSC450; or permission of ARHU-School of Music department.

The analytical methods of Heinrich Schenker with application of those theories to musical literature from the Baroque, Classical and Romantic periods.

0101	Thomas DeLio	Seats (Total: 10)
	W 2:00pm - 4:30pm	PAC 2164

MUSC653 **Jazz Improvisation I**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of ARHU-School of Music department. Credit only granted for: MUSC653 or MUSC699Z. Formerly: MUSC699Z.

Study of improvisational techniques and historical styles of jazz, including study of jazz "language" through transcription and analysis of recorded solos, and the exploration of creative processes and philosophical concepts.

0101	Michael Quinlivan	Seats (Total: 8)
	M 7:30pm - 9:30pm Contact instructor or department for details.	PAC 1208

MUSC655 **Theory of Jazz**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of ARHU-School of Music department. Credit only granted for: MUSC655 ir MUSC699J. Formerly: MUSC699J.

Analysis of jazz harmony, with emphasis on principles of substitution, reharmonization, and syntax. Topics may also include chord/scale relationships, phrasing, articulation, notation and orchestration.

0101	Timothy Powell	Seats (Total: 12)
	TuTh 3:30pm - 4:45pm	PAC 3168

MUSC659A **Seminar in Repertoire and Pedagogy**

(Perm req)

Credits: 2-3 Grading Method: Regular

Analysis and preparation of choral master works from all major style periods for the purpose of successful rehearsal and performance by conductors.

0101	Edward Maclary	Seats (Total: 6)
	MW 10:00am - 10:50am	PAC 3160

MUSC659C **Seminar in Repertoire and Pedagogy; Wind Repertoire and Pedagogy**

(Perm req)

Credits: 2-3 Grading Method: Regular, Audit

Analysis and preparation of choral master works from all major style periods for the purpose of successful rehearsal and performance by conductors.

0101	Michael Votta	Seats (Total: 5)
	Contact instructor or department for details.	

MUSC660 **String Pedagogy**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of ARHU-School of Music department. Credit only granted for: MUSC400S or MUSC660.

A study of major string pedagogical treatises, and an evaluation of string pedagogical techniques, materials, and procedures.

0101	Rebecca Henry	Seats (Total: 35)
	M 5:00pm - 7:30pm	PAC 2201

MUSC669C **Orchestral Excerpts for String Players; Violin**

Credits: 1 Grading Method: Regular, Audit

In-depth study of the orchestral excerpts required for professional orchestra auditions.

0101	David Salness	Seats (Total: 10)
	Contact instructor or department for details.	

MUSC669D **Orchestral Excerpts for String Players; Viola**

Credits: 1 Grading Method: Regular, Audit

In-depth study of the orchestral excerpts required for professional orchestra auditions.

0101	Timothy MacDuff	Seats (Total: 10)
	Contact instructor or department for details.	

MUSC669F **Orchestral Excerpts for String Players; Bass**

(Perm req)

Credits: 1 Grading Method: Regular, Audit

In-depth study of the orchestral excerpts required for professional orchestra auditions.

0101	Robert Oppelt	Seats (Total: 15)
	W 4:30pm - 5:45pm	Location: TBA

MUSC669V **Orchestral Excerpts for String Players; Harp**

(Perm req)

Credits: 1 Grading Method: Regular, Audit

In-depth study of the orchestral excerpts required for professional orchestra auditions.

0101	Sarah Fuller	Seats (Total: 5)
	Contact instructor or department for details.	

MUSC675 **Music Theory Pedagogy**

Credits: 3 Grading Method: Regular, Audit

Analysis of introductory level music theory courses, evaluation of text materials, and teaching approaches for music fundamentals, aural training, and basic undergraduate theory programs.

0101	Daniel Zimmerman	Seats (Total: 7)
	TuTh 11:00am - 12:15pm	PAC 3160

MUSC676 **Historical Theory and Method in Ethnomusicology**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Restriction: Permission of ARHU-School of Music department. Credit only granted for: MUET675 or MUSC676. Formerly: MUET675.

Reading and discussion of major works in ethnomusicology, with emphasis on schools of thought, convergence with and divergence from musicology and systematic musicology; close examination of trends in methodology and theory from the mid-eighteenth century until approximately thirty years before the present.

0101	John Witzleben	Seats (Total: 12)
	Tu 3:30pm - 6:00pm	PAC 3110A

MUSC679L **Seminar in Ethnomusicology; Music and Language**

Credits: 3

Grading Method: Regular

Seminar topics address current issues, including gender, the social economy of music, ethnography of performance, etc.

Also offered as ANTH688L. Credit only granted for ANTH688L or MUSC679L.

0101	Siv Lie	Seats (Total: 12)
	M 3:30pm - 6:00pm	PAC 3110A

MUSC689 **Advanced Conducting**

(Perm req)

Credits: 2

Grading Method: Regular, Audit

A concentrated study of the conducting techniques involved in the repertoire of all historical periods.

0101	Michael Votta	Seats (Total: 5)
	M 1:00pm - 3:30pm	PAC 2531

MUSC699 **Selected Topics in Music**

(Perm req)

Credits: 1-3

Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSC699E **Selected Topics in Music; The Entrepreneurial Musician**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

0101	Lee Hinkle TuTh 9:30am - 10:45am	Seats (Total: 10) PAC 2200

MUSC699J **Selected Topics in Music; Readings in Music and Gender**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

0101	Olga Haldey W 6:30pm - 9:00pm	Seats (Total: 12) PAC 3110A

MUSC699K **Selected Topics in Music; Music in the Early Modern City**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

0101	Barbara Haggh-Huglo TuTh 9:30am - 10:45am	Seats (Total: 12) PAC 3110A

MUSC699T **Selected Topics in Music; Critical Concepts in Music Theory**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

0101	Dora Hanninen TuTh 2:00pm - 3:15pm	Seats (Total: 8) PAC 3168

MUSC699W **Selected Topics in Music; Instrumental Pedagogy**

Credits: 3 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSC757 **Aural Skills for Conductors**

(Perm req)

Credits: 1 Grading Method: Regular

Restriction: Permission of ARHU-School of Music department.

Advanced musicianship skills necessary for conductors.

0101	Michael Votta Tu 12:30pm - 1:30pm W 1:00pm - 1:50pm	Seats (Total: 5) PAC 2126 PAC 2126

MUSC758 **Advanced Aural Skills for Conductors**

(Perm req)

Credits: 1 Grading Method: Regular, Audit

Continuation of MUSC757, advanced aural skills necessary for conductors.

0101	Michael Votta	Seats (Total: 5)
	W 1:00pm - 2:15pm	PAC 2126

MUSC799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

MUSC800S **Advanced Seminar in Music Pedagogy**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MUSC400; or students who have taken courses with comparable content may contact the department. Restriction: Permission of instructor.

A detailed study of historical and contemporary methods of pedagogy, and analysis of pedagogical problems. Sectioning by instrument. Required of all candidates for the D.M.A. Degree in performance and literature.

0101	Rebecca Henry	Seats (Total: 35)
	M 5:00pm - 7:30pm	PAC 2201

MUSC800W **Advanced Seminar in Music Pedagogy**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: MUSC400; or students who have taken courses with comparable content may contact the department. Restriction: Permission of instructor.

A detailed study of historical and contemporary methods of pedagogy, and analysis of pedagogical problems. Sectioning by instrument. Required of all candidates for the D.M.A. Degree in performance and literature.

0101	Sarah Frisof	Seats (Total: 10)
	Contact instructor or department for details.	

0201	Mark Hill Contact instructor or department for details.	Seats (Total: 10)
0301	Robert DiLutis Contact instructor or department for details.	Seats (Total: 10)
0401	Erich Heckscher Contact instructor or department for details.	Seats (Total: 10)
0501	Timothy Powell Contact instructor or department for details.	Seats (Total: 10)
0601	Gregory Miller Contact instructor or department for details.	Seats (Total: 10)
0701	Paul Gekker Contact instructor or department for details.	Seats (Total: 10)
0801	Matthew Guilford Contact instructor or department for details.	Seats (Total: 10)
0901	David Fedderly Contact instructor or department for details.	Seats (Total: 10)
1001	Paul Kellner Contact instructor or department for details.	Seats (Total: 10)
1101	Lee Hinkle Contact instructor or department for details.	Seats (Total: 10)

MUSC811 **Doctoral Opera Techniques**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Restriction: Permission of ARHU-School of Music department. Credit only granted for: MUSC611 or MUSC811.

Techniques for opera performance: Improvisation; Acting I, Scene Study I; and Movement I. Practical application of styles, techniques to operat e repertoire, and methodology seminar.

0101	Craig Kier TBA TBA	Seats (Total: 5) PAC 2170 PAC 1218	 Lab

MUSC813 **Doctoral Opera Techniques III**

(Perm req)

Credits: 2

Grading Method: Regular, Audit

Prerequisite: MUSC812; and permission of ARHU-School of Music department. Credit only granted for: MUSC613 and MUSC813.

Continuation of MUSC812. Techniques for opera performance: Scene Study III; Movement III; Acting III Shakespeare; Dance I; Stage Combat II; Stage Combat II; and methodology seminar.

0101	Craig Kier	Seats (Total: 5)	
	TBA	PAC 2170	
	TBA	PAC 1218	Lab

MUSC830A **Doctoral Seminar in Music Literature**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: Must have completed at least twelve hours in music history and literature.

An analytical survey of the literature of music: keyboard music; vocal music; string music; wind instrument music; required of all candidates for the D.M.A. Degree in literature-performance.

0101	Rita Sloan	Seats (Total: 10)
	W 3:00pm - 5:30pm	PAC 2200

MUSC830P **Doctoral Seminar in Music Literature**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: Must have completed at least twelve hours in music history and literature.

An analytical survey of the literature of music: keyboard music; vocal music; string music; wind instrument music; required of all candidates for the D.M.A. Degree in literature-performance.

0101	Bradford Gowen	Seats (Total: 15)
	Th 2:30pm - 5:00pm	PAC 3110A

MUSC830V **Doctoral Seminar in Music Literature**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: Must have completed at least twelve hours in music history and literature.

An analytical survey of the literature of music: keyboard music; vocal music; string music; wind instrument music; required of all candidates for the D.M.A. Degree in literature-performance.

0101	Delores Ziegler W 3:00pm - 5:30pm	Seats (Total: 10) PAC 2200

MUSC830W **Doctoral Seminar in Music Literature**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Must have completed at least twelve hours in music history and literature.

An analytical survey of the literature of music: keyboard music; vocal music; string music; wind instrument music; required of all candidates for the D.M.A. Degree in literature-performance.

0101	Sarah Frisof Contact instructor or department for details.	Seats (Total: 10)
0201	Mark Hill Contact instructor or department for details.	Seats (Total: 10)
0301	Robert DiLutis Contact instructor or department for details.	Seats (Total: 10)
0401	Erich Heckscher Contact instructor or department for details.	Seats (Total: 10)
0501	Timothy Powell Contact instructor or department for details.	Seats (Total: 10)
0601	Gregory Miller Contact instructor or department for details.	Seats (Total: 10)
0701	Paul Gekker Contact instructor or department for details.	Seats (Total: 10)
0801	Matthew Guilford Contact instructor or department for details.	Seats (Total: 10)
0901	David Fedderly Contact instructor or department for details.	Seats (Total: 10)
1001	Paul Kellner Contact instructor or department for details.	Seats (Total: 10)

1101	Lee Hinkle	Seats (Total: 10)
	Contact instructor or department for details.	

MUSC832A **Doctoral Seminar in Music Literature**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MUSC831. Restriction: Permission of ARHU-School of Music department.

An analytical survey of the literature of music: keyboard music; vocal music; string music; wind instrument music.

0101	Rita Sloan	Seats (Total: 5)
	Contact instructor or department for details.	

MUSC898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

MUSC899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

NACS Neuroscience & Cognitive Science Fall 2018

NACS608 **Neuroscience and Cognitive Science Seminar**

Credits: 1 Grading Method: Regular

Special seminar topics in Neuroscience and Cognitive Science.

0101	Ricardo Araneda	Seats (Total: 20)
	F 10:15am - 11:15am	BRB 1103

NACS640 **Foundational Readings Seminar**

(Perm req)

Credits: 2 Grading Method: Regular

Restriction: Permission of instructor; and must be in Neurosciences and Cognitive Sciences (Doctoral) program. Credit only granted for: NACS640 or NACS728R. Formerly: NACS728R.

An introduction to the breadth of research in Neuroscience and Cognitive Science. Faculty will present papers to provide historical context and introduction to important issues in the fields of their research.

0101	Erica Glasper Andrews Tu 1:00pm - 3:00pm	Seats (Total: 12) BPS 1103

NACS641 **Introduction to Neurosciences**

(Perm req)

Credits: 4 Grading Method: Regular, Audit

Restriction: Permission of instructor.

Detailed examination of neurophysiology and sensorimotor systems.

0101	Jens Herberholz MW 3:00pm - 4:45pm	Seats (Total: 15) BPS 0283

NACS643 **Computational Neuroscience**

Credits: 4 Grading Method: Regular, Audit

Prerequisite: NACS641; and must have completed a course in calculus; and permission of instructor.

Provides a mathematical foundation in computational neuroscience.

0101	Daniel Butts MW 12:00pm - 1:50pm	Seats (Total: 20) PLS 1115

NACS645 **Cognitive Science**

Credits: 4 Grading Method: Regular, Audit

Credit only granted for: NACS645 or NACS728Y. Formerly: NACS728Y.

A study of mental representations and computations. Issues examined include computation, representations, decisions, modularity, evolution, innateness, and reductionism.

0101	Yi Ting Huang MW 10:00am - 11:45am	Seats (Total: 25) COL 0211

NACS728A **Selected Topics in Neuroscience and Cognitive Science; Hearing**

Credits: 3 Grading Method: Regular, Audit

Graduate seminar on selected topics in contemporary neuroscience and Cognitive science. Extensive readings from the primary literature. Topics vary by semester.

Also offered as BIOL646. Credit only granted for BIOL646 or NACS728A.

0101	Catherine Carr	Seats (Total: 20)
	Th 4:00pm - 6:30pm	BPS 1208

NACS728J **Selected Topics in Neuroscience and Cognitive Science; Biology of Chemosensory Systems**

Credits: 3 Grading Method: Regular

Graduate seminar on selected topics in contemporary neuroscience and Cognitive science. Extensive readings from the primary literature. Topics vary by semester.

0101	Ricardo Araneda	Seats (Total: 10)
	MW 2:00pm - 3:15pm	BPS 2249

NACS728N **Selected Topics in Neuroscience and Cognitive Science; Diseases of the Nervous System**

Credits: 3 Grading Method: Regular, Audit

Graduate seminar on selected topics in contemporary neuroscience and Cognitive science. Extensive readings from the primary literature. Topics vary by semester.

0101	Quentin Gaudry	Seats (Total: 8)
	TuTh 12:30pm - 1:45pm	BPS 0283

NACS728O **Selected Topics in Neuroscience and Cognitive Science; Hormones and Behavior**

Credits: 3 Grading Method: Regular, Audit

Graduate seminar on selected topics in contemporary neuroscience and Cognitive science. Extensive readings from the primary literature. Topics vary by semester.

Prerequisite: PSYC301 or eqivalent. For students who have had PSYC301, written permissin of the instructor and department is required. Restricted to PSYC (major code 20010) students only. Also offered as NACS728O. Credit only granted for PSYC489G or NACS728O. Formerly: PSYC309Z. This course presents a comprehensive overview of the field of behavioral endocrinology, the study of the relationship between hormones and behavior, from a psychobiological perspective. We will examine the major mammalian endocrine systems, how hormones influence sex determination, how hormones underlie sex differences in brain structure and function, the role of hormones in parental and social behaviors, mood disorders, homeostasis, cognition and stress. Both normal and abnormal hormonal pathologies will be discussed. Due to the physiological and experimental erspectives of this course, much of the phenomenology that we will be studying will be based on research in species other than humans. This species comparative approach will reveal interesting "ways of doing things" that are intriguingly different from how "humans" do things.

0101	Erica Glasper Andrews	Seats (Total: 40)
	TuTh 9:30am - 10:45am	BPS 1238

NACS798 **Master's Non-Thesis Research**

Credits: 1-3 Grading Method: Regular

Individual research course for NACS non-thesis MS degree

Contact department for information to register for this course.

NACS799 **Master's Thesis Research**

Credits: 1-3 Grading Method: Regular

Individualized research course for NACS thesis MS degree

Contact department for information to register for this course.

NACS898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

NACS899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

Indivdual instruction course: contact department or instructor to obtai section number

Contact department for information to register for this course.

NAVY100 **Introduction to Naval Science**

Credits: 3 Grading Method: Regular

Introduction to the naval profession and concepts of sea power. Major topics explored are the mission, strategy, organization, and descriptions of the U.S. Navy and Marine Corps. Students will gain a basic understanding of warfighting capabilities, required leadership skills, training and education, and the duties and responsibilities of a U.S. Navy and Marine Corps Junior Officer. The student will learn Naval courtesy and customs, military justice, and nomenclature as well as the professional competencies required to become a naval officer.

0101	Barry Feinstein	Seats (Total: 75)
	MW 8:00am - 9:15am	PLS 1130

NAVY108 **Naval Science Leadership Lab**

Credits: 1 Grading Method: Regular

Introduces the student to a variety of instructional sessions and/or activities that will develop the leadership component of the Naval ROTC program. The Naval Science leadership lab may include, but not be limited to, close-order drill, physical fitness training, ceremonial functions, Department of the Navy policy, guest lecturers, general military training (GMT), Anti-Terrorism Force Protection (ATFP), traffic safety, nutrition, stress management, prevention of sexual harassment, and operations security.

0101	Troy Mong	Seats (Total: 75)
	Th 7:00am - 7:50am	ESJ 2204

NAVY200 **Leadership and Management**

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Permission of UGST-Navy ROTC. Additional information: Priority enrollment will be given to students enrolled in the NROTC program.

Introductory course designed to familiarize students with the theories, processes, and behaviors that enable effective leadership and managerial competence. Students will engage in analytical discussions, review leadership development and education, and Navy/Marine Corps-based case study discussions in order to develop their understanding of personal strengths, values and growth opportunities in the context of team, group and organizational leadership.

0101	Nathaniel Kaine	Seats (Total: 40)
	TuTh 8:00am - 9:15am	SYM 0200

NAVY300 **Naval Ship Systems I (Engineering)**

(Perm req)

Credits: 3 Grading Method: Regular

Recommended: MATH140 and MATH141. Restriction: Permission of UGST-Navy ROTC. Additional information: Priority enrollment will be given to students enrolled in the NROTC program.

Introduces the student to a comprehensive fundamental understanding of United States naval engineering principles and systems. Topics include thermodynamics, incompressible fluid flow, electrical theory, hydraulics and pneumatics, power train components, fluid/lube oil systems, desalination, fundamentals of nuclear power, propulsion systems (internal combustion, gas turbines, and steam), electrical distribution, ship stability and control and damage control. Students will also examine case studies to apply and analyze course topics within naval ships systems contexts.

0101	Edward Butler	Seats (Total: 20)
	MW 8:00am - 9:15am	ARM 0120

NAVY400 **Naval Operations and Seamanship**

(Perm req)

Credits: 3 Grading Method: Regular

Recommended: NAVY201. Restriction: Permission of UGST-Navy ROTC. Additional information: Priority enrollment will be given to students enrolled in the NROTC program.

Capstone course for senior NROTC Navy-option midshipmen in advanced navigation, communications, naval operations, and naval warfare. Students learn through simulation in a computer classroom known as the Maritime Skills Simulator (MSS), in addition to lectures, discussions, and qualitative and quantitative tests/examinations. Students will engage in discussions regarding the moral and ethical responsibilities or military leaders, as well as the essential attributes of character required for effective leadership.

0101	Barry Feinstein	Seats (Total: 20)
	TuTh 8:00am - 9:15am	ARM 0120

NAVY401 **Leadership and Ethics**

Credits: 3 Grading Method: Regular

Recommended: NAVY200. Restriction: Permission of UGST-Navy ROTC. Additional information: Priority enrollment will be given to students enrolled in the NROTC program.

Integrates an intellectual exploration of Western moral traditions and ethical philosophy with military leadership, core values, the Uniform Code of Military Justice, and Navy regulations. The course provides students with a basic understanding of major moral traditions including Relativism, Utilitarianism, Kantian Ethics, Natural Law Theory, Divine Command Theory, and Virtue Ethics.

0101	Troy Mong	Seats (Total: 5)
	TuTh 8:00am - 9:30am	ARM 0108

NFSC Nutrition and Food Science Fall 2018

The following courses may involve the use of animals. Students who are concerned about the use of animals in teaching have the responsibility to contact the instructor, prior to course enrollment, to determine whether animals are to be used in the course, whether class exercises involving animals are optional or required and what alternatives, if any, are available.

NFSC100 Elements of Nutrition

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: LS | General Education: DSNS

Fundamentals of human nutrition. Nutrient requirements related to changing individual and family needs.

0101	Hee-Jung Song MW 1:00pm - 1:50pm Th 8:30am - 9:20am	Seats (Total: 25) TYD 0130 JMZ 3203	Discussion
0102	Hee-Jung Song MW 1:00pm - 1:50pm Th 8:30am - 9:20am	Seats (Total: 0) TYD 0130 JMZ 0103	Discussion
0103	Hee-Jung Song MW 1:00pm - 1:50pm W 11:00am - 11:50am	Seats (Total: 25) TYD 0130 SQH 1123	Discussion
0104	Hee-Jung Song MW 1:00pm - 1:50pm Th 12:30pm - 1:20pm	Seats (Total: 25) TYD 0130 ATL 2352	Discussion
0105	Hee-Jung Song MW 1:00pm - 1:50pm F 11:00am - 11:50am	Seats (Total: 25) TYD 0130 EGR 3114	Discussion
0106	Hee-Jung Song MW 1:00pm - 1:50pm F 10:00am - 10:50am	Seats (Total: 25) TYD 0130 ITV 1111	Discussion
0107	Hee-Jung Song MW 1:00pm - 1:50pm W 10:00am - 10:50am	Seats (Total: 25) TYD 0130 KEY 0120	Discussion

0108	Hee-Jung Song MW 1:00pm - 1:50pm W 2:00pm - 2:50pm	Seats (Total: 25) TYD 0130 LEF 1220	 Discussion
0109	Hee-Jung Song MW 1:00pm - 1:50pm Tu 2:00pm - 2:50pm	Seats (Total: 25) TYD 0130 JMZ 0120	 Discussion
0110	Hee-Jung Song MW 1:00pm - 1:50pm Th 3:00pm - 3:50pm	Seats (Total: 0) TYD 0130 JMZ 0118	 Discussion
0111	Hee-Jung Song MW 1:00pm - 1:50pm Tu 12:30pm - 1:20pm *Recommended for NFSC majors only.*	Seats (Total: 25) TYD 0130 EGR 1102	 Discussion
0112	Hee-Jung Song MW 1:00pm - 1:50pm W 3:00pm - 3:50pm	Seats (Total: 0) TYD 0130 SQH 1123	 Discussion
0113	Hee-Jung Song MW 1:00pm - 1:50pm W 12:00pm - 12:50pm	Seats (Total: 25) TYD 0130 KEY 0120	 Discussion
0114	Hee-Jung Song MW 1:00pm - 1:50pm Th 11:00am - 11:50am	Seats (Total: 25) TYD 0130 EGR 1102	 Discussion
0115	Hee-Jung Song MW 1:00pm - 1:50pm F 12:00pm - 12:50pm	Seats (Total: 25) TYD 0130 JMZ 0118	 Discussion
FC01	Nadine Sahyoun, Shaik Rahaman, Hee-Jung Song, Seong-Ho Lee MW 4:30pm - 5:20pm F 11:30am - 12:20pm *Restricted to students in Freshmen Connection.*	Seats (Total: 30) SYM 0200 KNI 1105	 Discussion

FC02	Nadine Sahyoun, Shaik Rahaman, Hee-Jung Song, Seong-Ho Lee MW 4:30pm - 5:20pm F 1:00pm - 1:50pm *Restricted to students in Freshmen Connection.*	Seats (Total: 30) SYM 0200 KNI 1105	Discussion

NFSC100H **Elements of Nutrition**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: LS | General Education: DSNS

Fundamentals of human nutrition. Nutrient requirements related to changing individual and family needs.

For general honors students only.

0101	Hee-Jung Song MW 1:00pm - 1:50pm Tu 3:00pm - 3:50pm	Seats (Total: 12) TYD 0130 CHE 2140	Discussion

NFSC112 **Food: Science and Technology**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: LS | General Education: DSNS

Introduction to the realm of food science, food technology and food processing. An overview of the largest industry in the U.S. with emphasis on the science of food and the technology of food preservation from harvest through processing and packaging to distribution and consumer utilization.

0101	Qin Wang, Abani Pradhan MW 10:00am - 10:50am Th 12:30pm - 1:20pm	Seats (Total: 30) PHY 1412 CSI 2120	Discussion
0102	Abani Pradhan, Qin Wang MW 10:00am - 10:50am Th 4:00pm - 4:50pm	Seats (Total: 30) PHY 1412 JMZ 0122	Discussion
0103	Abani Pradhan, Qin Wang MW 10:00am - 10:50am F 12:00pm - 12:50pm	Seats (Total: 30) PHY 1412 KEY 0121	Discussion
0104	Qin Wang, Abani Pradhan MW 10:00am - 10:50am F 3:00pm - 3:50pm	Seats (Total: 30) PHY 1412 ASY 3219	Discussion

0105	Qin Wang, Abani Pradhan MW 10:00am - 10:50am W 2:00pm - 2:50pm	Seats (Total: 30) PHY 1412 MTH B0427	Discussion
0106	Abani Pradhan, Qin Wang MW 10:00am - 10:50am W 3:00pm - 3:50pm	Seats (Total: 30) PHY 1412 MTH B0425	Discussion
FC01	Abani Pradhan, Qin Wang MW 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 35) TYD 1102	

NFSC350 **Foodservice Operations**

(Perm req)

Credits: 5 Grading Method: Regular

Prerequisite: BSCI223 and BMGT364; and permission of AGNR-Nutrition and Food Science department. Restriction: Must be in Nutrition and Food Science: Dietetics program.

Introduction to management. Responsibilities in quantity food productio and purchasing in a foodservice operation. Laboratory experience in planning, preparation, and service of meals which meet the nutritional needs of the consumer.

0101	Margaret Udahogora, Komal Shah TuTh 4:00pm - 5:15pm Tu 8:00am - 1:30pm	Seats (Total: 9) TYD 1101 MMH 3108	Lab
0102	Komal Shah, Margaret Udahogora TuTh 4:00pm - 5:15pm Th 8:00am - 1:30pm	Seats (Total: 9) TYD 1101 MMH 3108	Lab
0103	Margaret Udahogora, Komal Shah TuTh 4:00pm - 5:15pm Tu 8:00am - 1:30pm	Seats (Total: 9) TYD 1101 MMH 3401	Lab
0104	Komal Shah, Margaret Udahogora TuTh 4:00pm - 5:15pm Th 8:00am - 1:30pm	Seats (Total: 9) TYD 1101 MMH 3401	Lab

NFSC380 **Methods of Nutritional Assessment**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: NFSC315 and BCHM461; and permission of AGNR-Nutrition and Food Science department. Restriction: Must be in Nutrition and Food Science: Food Science program.

Methods of assessing human nutritional status of populations and individuals. These methods include dietary, anthropometric, clinical evaluations and biochemical measurements.

0101	Margaret Udahogora MW 1:00pm - 1:50pm M 2:00pm - 5:00pm	Seats (Total: 15) SKN 0104 SKN 0101	 Lab
0102	Margaret Udahogora MW 1:00pm - 1:50pm W 2:00pm - 5:00pm	Seats (Total: 15) SKN 0104 SKN 0101	 Lab

NFSC386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Prerequisite: Permission of AGNR-Nutrition and Food Science department. Restriction: Junior standing or higher. Formerly: FDSC386 and NUTR386.

Contact department for information to register for this course.

NFSC388 **Honors Thesis Research**

Credits: 3-6 Grading Method: Regular

Undergraduate honors thesis research conducted under the direction of an AGNR faculty member in partial fulfillment of the requirements of the College of AGNR Honors Program. The thesis will be defended to a faculty committee.

1301	Qin Wang Contact instructor or department for details.	Seats (Total: 10)

NFSC399 **Special Problems in Food Science**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Designed for advanced undergraduates. Specific problems in food science will be assigned.

Contact department for information to register for this course.

NFSC421 **Food Chemistry**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BCHM461.

Basic chemical and physical concepts are applied to the composition and properties of foods. Emphasis on the relationship of processing technology to the keeping quality, nutritional value, and acceptability of foods.

0101	Liangli Yu	Seats (Total: 60)	
	MW 12:30pm - 1:45pm	LEF 2166	

NFSC422 **Food Product Research and Development**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: CS | General Education: DSSP

Restriction: Senior standing; and must be in a major within AGNR-Nutrition and Food Science department; and permission of AGNR-Nutrition and Food Science department. Formerly: FDSC422.

A capstone course for FDSC majors. A study of the research and development of new food products. Application of food technology, engineering, safety and packaging are integrated by teams of students to develop a new food product from concept to pilot plant scale-up. Students will travel to nearby food processing plants on two to four Saturdays during the semester.

0101	Qin Wang	Seats (Total: 15)	
	W 2:00pm - 2:50pm	PLS 1162	
	F 1:00pm - 5:00pm	MMH 3401	Lab

NFSC423 **Food Chemistry Laboratory**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

Prerequisite: Must have completed or be concurrently enrolled in NFSC421.

Analysis of the major and minor constituents of food using chemical, physical and instrumental methods in concordance with current food industry and regulatory practices. Laboratory exercises coincide with lecture subjects in NFSC421.

0101	Liangli Yu	Seats (Total: 15)	
	W 8:30am - 9:20am	MMH 3419	
	W 9:30am - 12:20pm	MMH 3419	Lab

NFSC440 **Advanced Human Nutrition**

(Perm req) Credits: 4 | Grading Method: Regular

Prerequisite: BCHM462, BSCI440, and NFSC100; and permission of AGNR-Nutrition and Food Science department.

A critical study of physiologic, molecular and metabolic influences on utilization of carbohydrates, lipids, proteins, vitamins, macro-and micro- minerals, and nonnutritive components of food. Interactions of these nutrients and food components will be examined relative to maintaining health.

Also offered as NFSC678R.

0101	David Lei	Seats (Total: 75)
	TuTh 2:00pm - 3:40pm	PHY 1402

NFSC490 **Special Problems in Nutrition**

(Perm req)

Credits: 2-3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Prerequisite: NFSC440; and permission of AGNR-Nutrition and Food Science department.

Individually selected problems in the area of human nutrition.

Contact department for information to register for this course.

NFSC498 **Selected Topics**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Selected current aspects of food.

Contact department for information to register for this course.

NFSC498A **Selected Topics; Individual Study**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Selected current aspects of food.

Contact department for information to register for this course.

NFSC498F **Selected Topics; Current Topics in Nutrition and Chronic Disease**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected current aspects of food.

Prerequisite: NFSC100 or comparable course, or by permission of the instructor. Analysis of current topics related to diet, nutrition, and human health at cellular, molecular and biochemical level. Further, this course will provide overview of the current methods, and in vitro/vivo model systems used in research. Syllabus includes topics relevant to dietary regulation of genes/proteins and their impact on both physiological and pathological conditions including hyperlipidemia, hyperglycemia, and oncogenesis. This course is designed to help students to understand and apply current scientific concepts and research methods, and to obtain necessary skills in evaluation/interpretation of evidence based scientific data.

0101	Shaik Rahaman M 2:15pm - 5:00pm	Seats (Total: 20) MMH 3112

NFSC498P **Selected Topics; Concepts in Food Law and Regulations**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected current aspects of food.

0101	Robert Buchanan M 5:00pm - 7:45pm	Seats (Total: 10) MMH 3112

NFSC498T **Selected Topics; Advanced Food Processing and Safety**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Selected current aspects of food.

0101	Rohan Tikekar Th 3:00pm - 5:30pm	Seats (Total: 10) WDS 1114

NFSC620 **Diet and Cancer Prevention**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: NFSC440; or permission of instructor. Credit only granted for: NFSC620 or NFSC679D. Formerly: NFSC678D.

1. The nature of cancer and the relationship between dietary/nutritional factors and incidence of cancer 2. Basic concepts of general cancer biology with focus on effects of dietary components on genes and their encoded proteins, epigenetic changes and cell signaling 3. Effect of dietary factors in various types of cancer with respect to the benefit of intervention strategies for chemoprevention 4. Scientific knowledge, critical thinking, and the practical application of diet in cancer prevention.

0101	Seong-Ho Lee Tu 4:00pm - 6:45pm	Seats (Total: 15) MMH 3112

NFSC678A **Selected Topics in Nutrition**

Credits: 1-4 Grading Method: Regular, Audit

Individual or group study in an area of nutrition.

Contact department for information to register for this course.

NFSC678F **Selected Topics in Nutrition; Current Topics in Nutrition and Chronic Disease**

Credits: 3 Grading Method: Regular, Audit

Individual or group study in an area of nutrition.

Prerequisite: NFSC100 or comparable course, or by permission of the instructor. Analysis of current topics related to diet, nutrition, and human health at cellular, molecular and biochemical level. Further, this course will provide overview of the current methods, and in vitro/vivo model systems used in research. Syllabus includes topics relevant to dietary regulation of genes/proteins and their impact on both physiological and pathological conditions including hyperlipidemia, hyperglycemia, and oncogenesis. This course is designed to help students to understand and apply current scientific concepts and research methods, and to obtain necessary skills in evaluation/interpretation of evidence based scientific data.

0101	Shaik Rahaman M 2:15pm - 5:00pm	Seats (Total: 20) MMH 3112

NFSC678R **Selected Topics in Nutrition; Advanced Human Nutrition**

(Perm req)

Credits: 4 Grading Method: Regular, Audit

Individual or group study in an area of nutrition.

Also offered as NFSC440. Prerequisites: NFSC100, BCHM462, BSCI440, and permission of department.

0101	David Lei TuTh 2:00pm - 3:40pm	Seats (Total: 75) PHY 1402

NFSC678V **Selected Topics in Nutrition; Research Design and Methods in Health Promotion and Nutrion Education**

Credits: 3 Grading Method: Regular, Audit

Individual or group study in an area of nutrition.

The major goals of this course are to help students understand fundamental behavioral, social models and theories used in the field of nutrition, and to address methodological issues in developing, implementing, and evaluating intervention programs, particularly in the context of nutrition education and behavior. The class topics include types of social and behavioral theories and models applied in the field of nutrition education and public health, conceptual framework building, methodological basics (conceptualizing and operationalizing measurements reliability and validity of scales, psychometric analysis including factor analysis, and issues in evaluating intervention programs.

0101	Hee-Jung Song Tu 2:30pm - 5:15pm	Seats (Total: 15) SKN 0101	

NFSC679P Selected Topics in Food Science; Concepts in Food Law and Regulations

Credits: 3 Grading Method: Regular

Individual or group study in an area of food science.

0101	Robert Buchanan M 5:00pm - 7:45pm	Seats (Total: 10) MMH 3112	

NFSC679R Selected Topics in Food Science; Food Safety and Nutrition Risk Assessment

Credits: 4 Grading Method: Regular

Individual or group study in an area of food science.

0101	Abani Pradhan M 1:00pm - 2:40pm F 11:00am - 1:30pm	Seats (Total: 25) SKN 0112D TYD 0117	 Lab

NFSC679T Selected Topics in Food Science; Advanced Food Processing and Safety

Credits: 2 Grading Method: Regular

Individual or group study in an area of food science.

0101	Rohan Tikekar Th 3:00pm - 5:30pm	Seats (Total: 10) WDS 1114	

NFSC688 Seminar in Nutrition and Food Science

Credits: 1-3

Grading Method: Regular, Audit

This is a seminar course presentedy by NFSC graduate students and invited speakers in the field of nutrition and food science.

0101	Robert Jackson	Seats (Total: 25)
	W 12:00pm - 12:50pm	SKN 0101

NFSC690 **Nutrition and Aging**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: NFSC440 or BSCI440; or students who have taken courses with comparable content may contact the department.

Explore the nutrition needs of older adults and examine the potential impact of the physiological, social and psychological changes that occur with aging on the needs.

0101	Nadine Sahyoun	Seats (Total: 15)
	F 10:00am - 12:45pm	SKN 0101

NFSC699 **Problems in Nutrition and Food Science**

(Perm req)

Credits: 1-4

Grading Method: Regular, Audit

Credit according to time scheduled and magnitude of problem. An experimental program on a topic other than the student's thesis problem will be conducted. Four credits shall be the maximum allowed toward an advanced degree.

Contact department for information to register for this course.

NFSC735 **Food Toxicology**

Credits: 3

Grading Method: Regular, Audit

Recommended: BCHM462, BSCI440, or CHEM131. Also offered as: MIEH735. Credit only granted for: MIEH735 or NFSC735.

An introduction to basic concepts in toxicology in relation to toxic food contaminants and additives; both synthetic and naturally occurring. Focus on exposure routes, molecular targets and susceptible individuals. Also includes regulatory toxicology with respect food toxins.

0101	Paul Turner, Robert Buchanan	Seats (Total: 20)
	W 1:00pm - 3:45pm	EGR 3102

NFSC799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

First and second semesters. Credit in proportion to work done and results accomplished. Investigation in some phases of foodservice administration which may form the basis of a thesis. results in the form of a thesis.

Contact department for information to register for this course.

NFSC898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

First and second semesters. Oral reports on special topics or recently published research in nutrition. Distinguished scientists are invited as guest lecturers. A maximum of three credits allowed for the M.S.

Contact department for information to register for this course.

NFSC899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

NIAS National Institute of Aeronautics - North Carolina Fall 2018

NIAS788T **Advanced Topics; Heat Transfer Theory and Applications**

Credits: 3 Grading Method: Regular, Audit

Contact department for information to register for this course.

NIAS788W **Advanced Topics; Wing Theory**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

TV01	Instructor: TBA	Seats (Total: 0)
	Contact instructor or department for details.	

PEER Health Center Fall 2018

PEER311 **Peer Education Mental Health & Wellness**

(Perm req)

Credits: 3 Grading Method: Regular General Education: DVCC

Prerequisite: Students must complete an interview before enrolling in this course. Restriction: Permission of instructor; and minimum cumulative GPA of 2.5. Credit only granted for: HLTH381 or PEER311. Formerly: HLTH 381. Additional information: Students are required to attend a 40-hour training the week before classes begin which will equip them with the information and tools necessary to provide outreach as early as the first week of the Fall classes. Some evening and weekend hours may be required.

Designed to train students to become Peer Educators who are responsible for presenting to members of the campus community about issues surrounding stress management, mental illness, appropriate on/off campus resources, stigma, body image, helping a friend in distress, and other issues related to mental health and wellness, including bystander intervention. Programming is done in classroom settings, residence halls, and at tables during special events.

0101	Sarah Wilson	Seats (Total: 16)
	M 4:00pm - 5:00pm	JMZ 0125
	W 4:00pm - 6:00pm	JMZ 0125

PEER312 **Peer Education: Preventing Power-Based Violence**

(Perm req)

Credits: 3 Grading Method: Regular General Education: DVCC

Prerequisite: Students must complete an interview before enrolling in this course. Restriction: Permission of instructor; and minimum cumulative GPA of 2.5. Credit only granted for: HLTH382 or PEER312. Formerly: HLTH382. Additional information: Students are required to attend a 40-hour training the week before classes begin which will equip them with the information and tools necessary to provide outreach as early as the first week of the Fall classes. Some evening and weekend hours may be required.

Designed to train students to become Peer Educators who are responsible for presenting to members of the campus community about the complex dynamics surrounding issues of power-based personal violence. This includes: sexual assault, relationship violence, stalking, bystander intervention, consent, and rape culture. Students fully learn the on and off-campus resources for victim/survivors. Programming is done in classroom settings, residence halls, Greek life spaces, and at tables during special events.

0101	Rajan Parikh	Seats (Total: 15)
	M 4:00pm - 5:00pm	JMZ 3120
	W 4:00pm - 6:00pm	JMZ 3120

PEER313 **Peer Education: Alcohol and Other Drugs Education**

(Perm req)

Credits: 3 Grading Method: Regular General Education: DVCC

Prerequisite: Students must complete an interview before enrolling in this course. Restriction: Permission of instructor; and minimum cumulative GPA of 2.5. Credit only granted for: HLTH380 or PEER313. Formerly: HLTH380. Additional information: Students are required to attend a 40-hour training the week before classes begin which will equip them with the information and tools necessary to provide outreach as early as the first week of the Fall classes. Some evening and weekend hours may be required.

Designed to train students to become Peer Educators who are responsible for presenting to members of the campus community about issues surrounding substance use, including (but not limited to) alcohol, marijuana, and various other drugs, providing information about campus services for those with substance use related issues, and educating students about other topics related to harm reduction strategies and promoting students' overall well-being, including bystander intervention. Programming is done in classroom settings, residence halls, and at tables during special events.

0101	Julia Matute	Seats (Total: 15)
	M 4:00pm - 5:00pm	JMZ 1117
	W 4:00pm - 6:00pm	JMZ 1117

PEER314 **Peer Education: Sexual Health & Wellness**

(Perm req)

Credits: 3 Grading Method: Regular General Education: DVCC

Prerequisite: Students must complete an interview before enrolling in this course. Restriction: Permission of instructor; and minimum cumulative GPA of 2.5. Credit only granted for: HLTH383 or PEER314. Formerly: HLTH383. Additional information: Students are required to attend a 40-hour training the week before classes begin which will equip them with the information and tools necessary to provide outreach as early as the first week of the Fall classes. Some evening and weekend hours may be required.

Designed to train students to become Peer Educators who are responsible for presenting to members of the campus community about issues surrounding Sexually Transmitted Infections, sexual health testing and screening, birth control options, healthy sexuality, consent and communication, condoms and other barrier protection, campus sexual health services, and other issues related to sexual well being including bystander intervention. Programming is done in classroom settings, residence halls, and at tables during special events.

0101	Jenna Messman	Seats (Total: 15)
	M 4:00pm - 5:00pm	JMZ 2117
	W 4:00pm - 6:00pm	JMZ 2117

PEER318 **CARE Peer Advocacy**

(Perm req)

Credits: 3 Grading Method: Regular

Designed to train students to become Peer Advocates who are responsible for providing crisis and short-term support services for victims of sexual assault, relationship violence, stalking, sexual harassment and child abuse.Students will be meeting with clients and providing emotional support and resources (both on and off campus). During weekly classes, students will be trained in trauma-informed crisis intervention procedures that will not only help them assist clients during in- person sessions but will help them support clients via the crisis cell. Students will be expected to maintain the crisis cell (on a shared basis)throughout the semester as well as maintain 10 hours per week in the CARE office. In addition to maintaining the crisis cell and office hours, during the spring semester students will be tasked with working as a team in planning and executing a Take Back the Night event.

0101	Christina Jay	Seats (Total: 15)
	W 5:00pm - 6:30pm Contact instructor or department for details.	Location: TBA

PEER319 **CARE to Stop Violence Outreach Peer Program**

Credits: 3 Grading Method: Regular

A two semester, 6-credit course designed to train students in the knowledge, values and skills to build professional relationships and become leaders in community development related to the social justice issue of sexual misconduct with emphasis on the college campus environment.

0101	Carly Cottone	Seats (Total: 15)
	MW 5:00pm - 5:50pm Contact instructor or department for details.	JMZ 1124
	Contact department or instructor for details.	

PEER338 **PEER LEADERSHIP AND EDUCATION**

(Perm req)

Credits: 3 Grading Method: Regular

PEER 338 is an interdisciplinary independent study designed to enhance the scope of learning around UHC peer education topics and train students to serve as leaders for those enrolled in first year peer courses, PEER31X and PEER32X. Second year peers are trained to facilitate intersectional and advanced health education dialogue, as well as serve in leadership roles for the course in which they were previously enrolled, PEER31X and PEER32X. Additionally, Peer Leader responsibilities include creating and implementing campus wide events to promote learning around the intersections between UHC peer education group topics (power-based violence, sexual health, alcohol and other drugs, stress and mental health). Peer Leaders will have different responsibilities based on the programmatic needs and goals of the semester.

Prerequisites: Students must have a minimum GPA of 2.5. Students are required to have completed PEER311/321, PEER312/322, PEER313/323, or PEER314/324 with a minimum grade of B-. Restriction: Permission of Instructor. Must have earned a minimum cumul ative GPA of 2.5.

0101	Julia Matute, Jenna Messman, Rajan Parikh, Sarah Wilson M 5:15pm - 6:45pm W 5:15pm - 6:15pm	Seats (Total: 7) Location: TBA Location: TBA	

PERS Persian Fall 2018

PERS101 **Elementary Persian I**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not be native/fluent speaker of Persian.

Introduction to the alphabet, pronunciation patterns, greetings, basic structures, and other fundamentals, with emphasis on oral and aural skills.

0101	Susan Moinfar MWF 10:00am - 10:50am Tu 10:00am - 10:50am Th 10:00am - 10:50am	Seats (Total: 18) HJP 2114 HJP 2114 HJP 2114	 Lab

PERS211 **Intermediate Conversation**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PERS102; or students who have taken courses with comparable content may contact the department. Recommended: Concurrent enrollment in PERS201.

Development of aural and oral skills in Persian. Various genres and registers of speech. Special focus on contemporary daily life, with use of up-to-date media sources.

0101	Susan Moinfar MWF 11:00am - 11:50am Tu 11:00am - 11:50am	Seats (Total: 15) HJP 2114 HJP 2114	 Lab

PERS251 **Modern Iran**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SH, D General Education: DSHS

General sociopolitical introduction to modern Iran from establishment of the Qajar dynasty in the late 18th century to the present day. Taught in English.

Also offered as HIST219X. Credit granted for PERS251 or HIST219X.

0101	Ida Meftahi	Seats (Total: 30)
	TuTh 3:30pm - 4:45pm	JMZ 2122

PERS283 **Iranian Cinema**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU

Introduction to Iranian cinema, society, and culture. Taught in English

Also offered as FILM298B. Credit granted for PERS283 or FILM283.

0101	Ida Meftahi	Seats (Total: 30)
	MW 3:30pm - 4:45pm	KEY 0121

PERS298E **Special Topics in Persian Studies; Visual Cultures of Islam**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topic to be announced when course is offered.

Also offered as AAST298B, ARTH389L, HIST219E, and RELS219E. Credit only granted for HIST219E, AAST298B, ARTH389L, PERS298E, or RELS219E. Visual Cultures of Islam is part of the Digital Islamic Studies Curriculum (digitalislam.umich.edu). This course is taught by renowned University of Michigan instructor, Christiane Gruber, an expert in the field of Islamic Art, and digitally shared with the University of Maryland. In this course, Professor Gruber explores definitions of "Islamic" art and investigates various visual cultures of Islam around the world from the 7th to the 20th century. The course meets twice a week in real time using video conferencing technology and students are able to enroll directly at Maryland for course credit.

0101	Instructor: TBA	Seats (Total: 10)
	MW 11:30am - 1:00pm	HJP 3120

PERS301 **Advanced Persian I**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PERS202; or permission of ARHU-School of Languages, Literatures, and Cultures department. Restriction: Must not be native/fluent speaker of Persian.

Development of speaking, reading, writing, listening and cultural knowledge through wide variety of activities, especially reading.

0101	Ali Abasi MW 1:00pm - 1:50pm F 1:00pm - 1:50pm	Seats (Total: 15) HJP 2114 HJP 2114

PERS311 **Persian Media**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PERS301; or permission of ARHU-School of Languages, Literatures, and Cultures department.

Examines issues, values, institutions of the contemporary Persian and Persianete world, primarily through analysis and discussion of current events as reported in the written and audiovisual press. Focus will be on increasing content knowledge as well as linguistic competency in Persian. Taught in Persian.

0101	Nahal Akbari-Saneh MWF 12:00pm - 12:50pm	Seats (Total: 10) HJP 2114

PERS398Q **Special Topics in Persian Studies; Social Issues in Contemporary Iran**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topic to be announced when course is offered. Taught in Persian

Permission required. Taught in Persian.

0101	Ali Abasi F 9:00am - 11:45am	Seats (Total: 10) HJP 3117

PERS398R **Special Topics in Persian Studies; Persian for Professional Purposes**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topic to be announced when course is offered. Taught in Persian

Taught in Persian.

0101	Manizhe Galledari TuTh 9:00am - 10:30am	Seats (Total: 10) HJP 3117

PERS399 **Directed Study in Persian**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Directed study with faculty supervision.

Contact department for information to register for this course.

PERS399C **Directed Study in Persian; Living/Learning in Persian House**

(Perm req)

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

Directed study with faculty supervision.

Prerequisite: Permission of departmetn. Taught in Persian.

0101	Manizhe Galledari	Seats (Total: 5)
	Contact instructor or department for details.	

PERS399D **Directed Study in Persian; Capstone Research Project**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Directed study with faculty supervision.

Permission required. Taught in Persian.

0101	Manizhe Galledari	Seats (Total: 10)
	M 9:00am - 11:45am	HJP 3117

PERS498 **Special Topics in Persian Studies**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Topic and language to be announced when offered.

Contact department for information to register for this course.

PERS498M **Special Topics in Persian Studies; Sex, Gender, and Sexuality in the Islamic World**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Topic and language to be announced when offered.

Also offered as PERS 689M, HIST 419C, HIST 619E, WMST 498D, WMST 698D, and CMLT 679D. Credit only granted for PERS 498M, PERS 689M, CMLT 679D, HIST 419C, HIST 619E, WMST 498D, or WMST 698D. Sex, Gender, and Sexuality in the Islamic World is an advanced introduction to the study of the changing norms of sex, gender, and sexuality in the Islamicate world, past and present. Through engagement with primary source readings, recent scholarly studies, and theoretical literature from Gender and Sexuality Studies and Queer Theory, we will cover such topics as: Islamic sexual ethics; homo- and heteroerotic poetry and art of both the spiritual and profane varieties; transvestism , androgyny, and gender nonconformity in the medieval Islamic world; premodern Islamic medical and courtly advice literature on sex; and the construction of "sexuality" (homo- and heterosexuality) in the modern Middle East. The course does not require any prior knowledge of Gender and Sexuality Studies or Islamicate cultures and languages.

0101	Matthew Miller	Seats (Total: 15)
	W 6:30pm - 9:00pm	JMZ 0120

PERS498N **Special Topics in Persian Studies; Masterpieces of Persian Literature Part 1**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topic and language to be announced when offered.

0101	Mohammad Bazargan	Seats (Total: 15)
	Tu 6:00pm - 8:30pm	JMZ 2122

PERS662 **Persian Sociolinguistics**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of ARHU-School of Languages, Literatures, and Cultures department.

Study of impact of social and regional factors on spoken and written usage. In Persian.

0101	Ali Abasi	Seats (Total: 1)
	Contact instructor or department for details.	

PERS689 **Special Topics in Persian Studies**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

In-depth analysis of a particular aspect of Persian studies. In Persian

Contact department for permission to register.

Contact department for information to register for this course.

PERS689B **Special Topics in Persian Studies**

Credits: 3 Grading Method: Regular, Audit

In-depth analysis of a particular aspect of Persian studies. In Persian

Contact department for information to register for this course.

PERS689M **Special Topics in Persian Studies; Sex, Gender, and Sexuality in the Islamic World**

Credits: 3 Grading Method: Regular, Audit

In-depth analysis of a particular aspect of Persian studies. In Persian

Also offered as PERS 498M, HIST 419C, HIST 619E, WMST 498D, WMST 698D, and CMLT 679D. Credit only granted for PERS 498M, PERS 689M, CMLT 679D, HIST 419C, HIST 619E, WMST 498D, or WMST 698D. Sex, Gender, and Sexuality in the Islamic World is an advanced introduction to the study of the changing norms of sex, gender, and sexuality in the Islamicate world, past and present. Through engagement with primary source readings, recent scholarly studies, and theoretical literature from Gender and Sexuality Studies and Queer Theory, we will cover such topics as: Islamic sexual ethics; homo- and heteroerotic poetry and art of both the spiritual and profane varieties; transvestism , androgyny, and gender nonconformity in the medieval Islamic world; premodern Islamic medical and courtly advice literature on sex; and the construction of "sexuality" (homo- and heterosexuality) in the modern Middle East. The course does not require any prior knowledge of Gender and Sexuality Studies or Islamicate cultures and languages.

0101	Matthew Miller	Seats (Total: 15)	
	W 6:30pm - 9:00pm	JMZ 0120	

PHIL Philosophy Fall 2018

Click here for fuller PHIL course descriptions.

PHIL100 **Introduction to Philosophy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HO General Education: DSHU

An introduction to the literature, problems, and methods of philosophy either through a study of some of the main figures in philosophic thought or through an examination of some of the central and recurring problems of philosophy.

0101	Dan Moller	Seats (Total: 25)	
	TuTh 11:00am - 11:50am	MMH 1400	
	F 1:00pm - 1:50pm	MTH 0104	Discussion

0102	Dan Moller TuTh 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 25) MMH 1400 MTH 0104	Discussion
0103	Dan Moller TuTh 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 25) MMH 1400 PHY 0405	Discussion
0104	Dan Moller TuTh 11:00am - 11:50am F 1:00pm - 1:50pm	Seats (Total: 25) MMH 1400 HBK 0105	Discussion
0105	Dan Moller TuTh 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 25) MMH 1400 HBK 0103	Discussion
0106	Dan Moller TuTh 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 25) MMH 1400 HBK 0103	Discussion
0201	Jeremy Reid MW 10:00am - 10:50am F 1:00pm - 1:50pm	Seats (Total: 25) TWS 1100 SYM 0209	Discussion
0202	Jeremy Reid MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 25) TWS 1100 HBK 0105	Discussion
0203	Jeremy Reid MW 10:00am - 10:50am F 12:00pm - 12:50pm	Seats (Total: 25) TWS 1100 SYM 0209	Discussion
FC01	Casey Enos TuTh 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 35) KEY 0126	

PHIL140 **Contemporary Moral Issues**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO | General Education: DSHU

The uses of philosophical analysis in thinking clearly about such widely debated moral issues as abortion, euthanasia, homosexuality, pornography, reverse discrimination, the death penalty, business ethics, sexual equality, and economic justice.

0101	Moonyoung Song TuTh 9:30am - 10:20am F 10:00am - 10:50am	Seats (Total: 25) SKN 0200 MTH 0411	Discussion
0102	Moonyoung Song TuTh 9:30am - 10:20am F 12:00pm - 12:50pm	Seats (Total: 25) SKN 0200 KEY 0103	Discussion
0103	Moonyoung Song TuTh 9:30am - 10:20am F 1:00pm - 1:50pm	Seats (Total: 25) SKN 0200 KEY 1117	Discussion
0104	Moonyoung Song TuTh 9:30am - 10:20am F 10:00am - 10:50am	Seats (Total: 25) SKN 0200 MTH 0103	Discussion
0105	Moonyoung Song TuTh 9:30am - 10:20am F 12:00pm - 12:50pm	Seats (Total: 25) SKN 0200 EDU 3233	Discussion
0106	Moonyoung Song TuTh 9:30am - 10:20am F 1:00pm - 1:50pm	Seats (Total: 25) SKN 0200 JMZ 0208	Discussion
0201	Hallie Liberto MW 12:00pm - 12:50pm F 10:00am - 10:50am	Seats (Total: 25) JMZ 0220 JMZ 0208	Discussion
0202	Hallie Liberto MW 12:00pm - 12:50pm F 11:00am - 11:50am	Seats (Total: 25) JMZ 0220 KEY 1117	Discussion
0203	Hallie Liberto MW 12:00pm - 12:50pm F 1:00pm - 1:50pm	Seats (Total: 25) JMZ 0220 SKN 0104	Discussion

0204	Hallie Liberto MW 12:00pm - 12:50pm F 10:00am - 10:50am	Seats (Total: 25) JMZ 0220 JMZ 0205	Discussion
0205	Hallie Liberto MW 12:00pm - 12:50pm F 11:00am - 11:50am	Seats (Total: 25) JMZ 0220 MTH 0403	Discussion
0206	Hallie Liberto MW 12:00pm - 12:50pm F 1:00pm - 1:50pm	Seats (Total: 25) JMZ 0220 MTH 1308	Discussion
FC01	Dimiter Kirilov MW 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 35) PLS 1113	
FC02	Sungwon Woo TuTh 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 35) PHY 4221	
FC03	Daniel Blair TuTh 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 35) PHY 4221	
FC04	Dimiter Kirilov MW 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 35) HBK 0109	
FC05	Chris Meyers MW 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 35) PLS 1113	

PHIL170 **Introduction to Logic**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: MS | General Education: FSAR

Development of analytical reasoning skills through study of formal logics, reasoning systems, and fallacious inference patterns.

0101	Michael McCourt MW 11:00am - 11:50am Th 9:30am - 10:20am	Seats (Total: 25) ESJ 0224 JMZ 0103	Discussion
0102	Michael McCourt MW 11:00am - 11:50am Th 11:00am - 11:50am	Seats (Total: 25) ESJ 0224 JMZ 0125	Discussion
0103	Michael McCourt MW 11:00am - 11:50am Th 12:30pm - 1:20pm	Seats (Total: 25) ESJ 0224 ITV 1100	Discussion
0104	Michael McCourt MW 11:00am - 11:50am F 12:00pm - 12:50pm	Seats (Total: 25) ESJ 0224 SKN 0104	Discussion
0105	Michael McCourt MW 11:00am - 11:50am F 1:00pm - 1:50pm	Seats (Total: 25) ESJ 0224 JMZ 1122	Discussion
0106	Michael McCourt MW 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 25) ESJ 0224 CSI 2118	Discussion
0107	Michael McCourt MW 11:00am - 11:50am F 1:00pm - 1:50pm	Seats (Total: 25) ESJ 0224 EGR 3114	Discussion
0108	Michael McCourt MW 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 25) ESJ 0224 LEF 2166	Discussion
0109	Michael McCourt MW 11:00am - 11:50am F 12:00pm - 12:50pm	Seats (Total: 25) ESJ 0224 JMZ 1120	Discussion

PHIL209A **Philosophical Issues; Bioethics: Regulating Right and Wrong**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU, DSSP

An examination of selected philosophical issues of general interest.

0101	Samuel Kerstein TuTh 9:30am - 10:20am F 10:00am - 10:50am	Seats (Total: 25) SQH 1120 CHE 2118	Discussion
0102	Samuel Kerstein TuTh 9:30am - 10:20am F 11:00am - 11:50am	Seats (Total: 25) SQH 1120 EDU 3236	Discussion
0103	Samuel Kerstein TuTh 9:30am - 10:20am F 1:00pm - 1:50pm	Seats (Total: 25) SQH 1120 ARC 1103	Discussion

PHIL209E **Philosophical Issues; Happiness**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU, SCIS

An examination of selected philosophical issues of general interest.

This course examines the nature of happiness and its role in the good human life through the lens of both philosophy and psychology.

0101	Rachel Singpurwalla TuTh 2:00pm - 2:50pm F 10:00am - 10:50am	Seats (Total: 25) TWS 1100 VMH 1207	Discussion
0102	Rachel Singpurwalla TuTh 2:00pm - 2:50pm F 11:00am - 11:50am	Seats (Total: 25) TWS 1100 VMH 1207	Discussion
0103	Rachel Singpurwalla TuTh 2:00pm - 2:50pm F 1:00pm - 1:50pm	Seats (Total: 25) TWS 1100 EDU 3236	Discussion

PHIL209I **Philosophical Issues: Spooky Action at a Distance: Where Physics meets Metaphysics**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO | General Education: DSHU, SCIS

Einstein believed physics should represent a "reality in space and time,free from spooky action at a distance" and worried that quantum theory failed that test. This course will investigate whether Einstein was right.

0101	Allen Stairs MW 12:00pm - 12:50pm F 10:00am - 10:50am	Seats (Total: 25) TYD 2109 SYM 0209	Discussion
0102	Allen Stairs MW 12:00pm - 12:50pm F 12:00pm - 12:50pm	Seats (Total: 25) TYD 2109 PLS 1113	Discussion
0103	Allen Stairs MW 12:00pm - 12:50pm F 1:00pm - 1:50pm	Seats (Total: 25) TYD 2109 PLS 1113	Discussion
FCH1	Allen Stairs Tu 3:00pm - 4:15pm Class time/details on ELMs *Restricted to students in Freshmen Connection.*	Seats (Total: 35) EGR 1104 ONLINE	

PHIL209N **Know Thyself: Wisdom Through Cognitive Science**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO | General Education: DSHS, DSHU, SCIS

How do we improve our decision-making and overcome our weaknesses and biases? Theory and data from cognitive science regarding these shortcomings will be reviewed, and strategies for addressing them proposed. Students will consider how the findings impact various facets of human life.

0101	Peter Carruthers MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 25) SHM 2102 KEY 0103	Discussion
0102	Peter Carruthers MW 10:00am - 10:50am F 12:00pm - 12:50pm	Seats (Total: 25) SHM 2102 ASY 3211	Discussion
0103	Peter Carruthers MW 10:00am - 10:50am F 1:00pm - 1:50pm	Seats (Total: 25) SHM 2102 EDU 2102	Discussion
0104	Peter Carruthers MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 25) SHM 2102 EDU 2119	Discussion

0105	Peter Carruthers MW 10:00am - 10:50am F 12:00pm - 12:50pm	Seats (Total: 25) SHM 2102 CHM 0124	Discussion
0106	Peter Carruthers MW 10:00am - 10:50am F 1:00pm - 1:50pm	Seats (Total: 25) SHM 2102 CHM 0124	Discussion

PHIL236 **Philosophy of Religion**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO | General Education: DSHU

Also offered as: RELS236. Credit only granted for: PHIL236 or RELS236.

A philosophical study of some of the main problems of religious thought the nature of religious experience, the justification of religious belief, the conflicting claims of religion and science, and the relation between religion and morality.

0101	Sungwon Woo TuTh 12:30pm - 1:20pm F 10:00am - 10:50am	Seats (Total: 25) TWS 0310 HBK 0109	Discussion
0102	Sungwon Woo TuTh 12:30pm - 1:20pm F 12:00pm - 12:50pm	Seats (Total: 25) TWS 0310 JMZ 2123	Discussion
0103	Sungwon Woo TuTh 12:30pm - 1:20pm F 1:00pm - 1:50pm	Seats (Total: 25) TWS 0310 MTH 0401	Discussion

PHIL245 **Political and Social Philosophy I**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO | General Education: DSHU

A critical examination of such classical political theories as those of Plato, Hobbes, Locke, Rousseau, Mill, Marx, and such contemporary theories as those of Hayek, Rawls, and recent Marxist thinkers.

0101	Brian Kogelmann MW 1:00pm - 1:50pm F 10:00am - 10:50am	Seats (Total: 21) SQH 1119 EDU 1107	Discussion

0102	Brian Kogelmann MW 1:00pm - 1:50pm F 11:00am - 11:50am	Seats (Total: 21) SQH 1119 MTH 0411	Discussion
0103	Brian Kogelmann MW 1:00pm - 1:50pm F 1:00pm - 1:50pm	Seats (Total: 21) SQH 1119 MTH 0405	Discussion

PHIL269M **Special Topics in Study Abroad II; Moral Philosophy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

PHIL269Y **Special Topics in Study Abroad II; Truth & Reality**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

PHIL308T **Studies in Contemporary Philosophy; A Philosopher's Toolkit**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Problems, issues, and points of view of current interest in philosophy.

An examination of how formal logic captures (and sometimes defies) logical intuitions, and how it supplies useful tools for clarifying a range of different philosophical problems, from issues of meaning, to issues of ontology and scientific reduction. NOTE: this course presupposes that you have already had some exposure to formal logic.

0101	Georges Rey TuTh 2:00pm - 3:15pm	Seats (Total: 25) CHE 2145	

PHIL308X **Studies in Contemporary Philosophy; Philosophy and Time Travel**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Problems, issues, and points of view of current interest in philosophy.

Examines the philosophical issues surrounding the paradoxes of time travel. Several solutions are considered, ranging from classical consistency conditions to multiverse theories. Materials include works of philosophy and physics, and time travel narratives from science fiction short stories and movies.

SG91	Lucas Dunlap	Seats (Total: 40)	
	Class time/details on ELMs	ONLINE	
	Registration is restricted to Biological Sciences-Shady Grove majors. Permission is required for all other students to enroll in courses at Shady Grove. Please email usgbiosci@umd.edu for permission.		

PHIL308Y **Studies in Contemporary Philosophy; Philosophy of Race**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Problems, issues, and points of view of current interest in philosophy.

This course explores philosophical questions related to race and ethnicity, with particular emphasis on race and ethnicity in the United States. Topics include race concepts, 'scientific racism', and ethical issues related to racial injustice.

0101	Kalewold Kalewold	Seats (Total: 25)	
	MW 2:00pm - 3:15pm	SKN 1115	

PHIL310 **Ancient Philosophy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed 6 credits in philosophy or classics.

A study of the origins and development of philosophy and science in ancient Greece, focusing on the pre-Socratics, Socrates, Plato, and Aristotle.

0101	Rachel Singpurwalla	Seats (Total: 25)	
	TuTh 11:00am - 11:50am	TWS 1100	
	M 10:00am - 10:50am	LEF 1220	Discussion
0102	Rachel Singpurwalla	Seats (Total: 25)	
	TuTh 11:00am - 11:50am	TWS 1100	
	M 12:00pm - 12:50pm	LEF 1201	Discussion

0103	Rachel Singpurwalla TuTh 11:00am - 11:50am M 1:00pm - 1:50pm	Seats (Total: 25) TWS 1100 LEF 1201	 Discussion

PHIL332 **Philosophy of Beauty**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 3 courses in PHIL; or permission of ARHU-Philosophy department.

Philosophical theories, historical and contemporary, of beauty, sublimity, and other aesthetic qualities, of aesthetic experience, and of aesthetic judgment.

0101	John Brown TuTh 9:30am - 10:45am	Seats (Total: 25) SKN 1112

PHIL338D **Studies in Value Theory; The Ethics of Sex**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Problems, issues and points of view in ethics, aesthetics, political philosophy and related areas.

Credit only granted for PHIL338D or (PHIL309S in Summer 2016). Questions of sexual morality often deal with emotionally-fraught decisions and real-world problems. This course will appeal to ethical theory to help us think carefully about the issues. We will also use films to provide a common ground for discussions. Topics include monogamy, cheating, open relationships, consent, sex & love, BDSM, pornography, prostitution, bestiality, and pedophilia.

0101	Chris Meyers MW 3:30pm - 4:45pm	Seats (Total: 30) ASY 3207

PHIL341 **Ethical Theory**

Credits: 3 Grading Method: Regular

Prerequisite: 6 credits in PHIL courses.

A critical examination of classical and contemporary systems of ethics, such as those of Aristotle, Kant, Mill, and Rawls.

Prerequisite: 6 credit hours in philosophy.

0101	Patricia Greenspan TuTh 12:30pm - 1:45pm	Seats (Total: 30) SQH 1103

PHIL362 **Theory of Knowledge**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 6 credits in PHIL courses; and PHIL170. Formerly: PHIL462.

Some central topics in the theory of knowledge, such as perception, memory, knowledge, and belief, skepticism, other minds, truth, and the problems of induction.

0101	Daniel Blair	Seats (Total: 30)
	Class time/details on ELMs	ONLINE

PHIL370 **Symbolic Logic**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHIL170 or CMSC250; or permission of ARHU-Philosophy department. Credit only granted for: PHIL271, PHIL370, or PHIL371.

A review of propositional and predicate logic and related topics and an introduction to the semantics and metatheory of first-order logic.

0101	John Horty	Seats (Total: 25)
	MW 2:00pm - 3:15pm	JMZ 0103

PHIL386 **Experiential Learning**

(Perm req)

Credits: 6 Grading Method: Regular, Pass-Fail

Restriction: Permission of ARHU-Philosophy department; and junior standing or higher.

Consult Director of Undergraduate Studies: C. Manekin. Prerequisites: 12 credit hours of philosophy and 3.0 GPA. Carries no credit toward philosophy major.

Contact department for information to register for this course.

PHIL412 **The Philosophy of Plato**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 6 credits in PHIL courses.

A critical study of selected dialogues.

0101	Kelsey Gipe	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

PHIL418D **Topics in Epistemology/Metaphysics; The Nature of Fiction**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An intensive examination of contemporary problems and issues in epistemology or metaphysics. Source material will be selected from recent books and articles.

An investigation into the nature of fiction. Topics include: What is fiction? Are there such things as fictional entities? What would such entities be, if there were any? How do fictions make us care about things we dont even believe in? How are fictional truths possible?

0101	Alexey Aliev	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

PHIL438D **Topics in Value Theory; Values: Comparison, Conflict and Change**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An intensive examination of contemporary problems and issues in ethics, aesthetics, political philosophy and related areas. Source material will be selected from recent books and articles.

Explores how moral and other values can be compared, especially when the comparisons are problematic. Readings will include recent work by Ruth Chang and L.A. Paul as well as classic essays on moral conflict and change by Bernard Williams and Friedrich Nietzsche.

0101	Daniel Blair	Seats (Total: 25)
	TuTh 2:00pm - 3:15pm	CCC 1105

PHIL453 **Philosophy of Science II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Students must have completed a minium of two philosophy courses.

A comprehensive survey of developments in the main problems of the philosophy of science from logical positivism to the present. The nature of theories, models, laws, and counterfactuals, testing, inductive logic, and confirmation theory, experimental methodology, measurement, explanation, concept formation, growth of scientific knowledge, and scientific realism.

0101	Harjit Bhogal	Seats (Total: 20)
	TuTh 12:30pm - 1:45pm	SYM 0209

PHIL454 **Philosophy of Space and Time**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 6 credits in PHIL courses.

A non-technical investigation of philosophical issues in the foundation of physics. Topics may include traditional philosophical problems of space and time, metaphysical issues about the nature of particles and fields, and philosophical problems associated with the introduction of probability into physics, such as the problem of irreversibility in thermodynamics and the problem of objectivity in quantum theory.

0101	Shen Pan	Seats (Total: 30)
	TuTh 9:30am - 10:45am	TYD 2108

PHIL469Y **Study Abroad Special Topics IV; Philosophy of Science II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

PHIL498F **Topical Investigations; Topical Investigation**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite:Two courses in philosophy or permission of the department.

Contact department for information to register for this course.

PHIL498G **Topical Investigations; Topical Investigation**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite:Two courses in philosophy or permission of the department.

Contact department for information to register for this course.

PHIL660 **Metaphysics, Mind, and Language**

Credits: 3 Grading Method: Regular, Audit

A basic course on selected issues in metaphysics, philosophy of mind, and philosophy of language for beginning graduate students, covering a number of topics in depth, to provide a springboard for further study and research in the area.

0101	Georges Rey	Seats (Total: 10)
	W 1:00pm - 3:30pm	SKN 1116

PHIL688T **Selected Problems in Philosophy; Introduction to Semantics**

Credits: 3 Grading Method: Regular, Audit

Also offered as LING660. Credit granted for LING660 or PHIL688T.

0101	Alexander Williams	Seats (Total: 15)
	TuTh 11:00am - 12:15pm	MMH 1108B

PHIL788G **Research in Philosophy; Research in Philosophy**

(Perm req)

Credits: 1-6 Grading Method: Regular, Audit

Contact department for information to register for this course.

PHIL788I **Research in Philosophy; Research in Philosophy**

(Perm req)

Credits: 1-6 Grading Method: Regular, Audit

Contact department for information to register for this course.

PHIL799 **Master's Thesis Research; Masters Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

PHIL848F **Seminar in Ethics; Pain and Suffering**

Credits: 3 Grading Method: Regular, Audit

0101	Patricia Greenspan	Seats (Total: 15)
	Tu 3:30pm - 6:00pm	SKN 1116

PHIL848L **Seminar in Ethics; Normative Powers**

Credits: 3 Grading Method: Regular, Audit

0101	Hallie Liberto M 3:00pm - 5:30pm	Seats (Total: 15) SKN 1116

PHIL858F **Seminar in Logic and Philosophy of Sciences**

Credits: 3 Grading Method: Regular, Audit

0101	Lindley Darden Tu 1:00pm - 3:30pm	Seats (Total: 15) SKN 1116

PHIL888 **Professional Mentoring for Doctoral Students**

Credits: 1-3 Grading Method: Sat-Fail

Work with a faculty advisor on various aspects of professional development.

Contact department for information to register for this course.

PHIL889 **Pedagogical Mentoring for Doctoral Students**

(Perm req)

Credits: 1-3 Grading Method: Sat-Fail

Work with a faculty advisor to develop and improve pedagogical skills.

Contact department for information to register for this course.

PHIL898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

PHIL899 **Doctoral Dissertation Research; Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

PHSC Public Health Science Fall 2018

PHSC300 **Foundations of Public Health**

Credits: 3 Grading Method: Regular

Restriction: Must be a major within the School of Public Health. Credit only granted for: SPHL100 or PHSC300.

An overview of the goals, functions, and methods of public health. After an introduction to the core concepts and tools used in public health research and practice, applications of these methodologies are considered in the context of current controversies/problems in public health. Students work together to develop strategies for prevention and control that take into consideration different points of view, outside research, and impacts on individuals and communities.

SG91	Chandria Jones Th 5:00pm - 7:30pm *Restricted to Shady Grove Students in the Public Health Science major.*	Seats (Total: 30) BLD2 2052
SG92	Chandria Jones Th 5:00pm - 7:30pm *Restricted to Shady Grove Students in the Criminology and Criminal Justice major.*	Seats (Total: 10) BLD2 2052

PHSC389 **Independent Research Study in Public Health Science**

(Perm req)

Credits: 1-6 Grading Method: Regular

This independent research-based experience will provide the opportunity for students to work with individual research mentors in the area of Public Health Science. Students must identify a mentor prior to obtaining departmental permission.

0101	Nancy Smith Contact instructor or department for details.	Seats (Total: 15)
SG91	Nancy Smith Contact instructor or department for details.	Seats (Total: 15)

PHSC399 **Public Health Science Internship**

Credits: 1-6 Grading Method: Regular

The Public Health Science internship will enable students to gain practical experience under conditions conducive to academic, research and professional development. The internship is a time-limited, supervised period of public health professional experience carried out in a related professional organization or research setting.

0101	Nancy Smith Contact instructor or department for details.	Seats (Total: 15)
SG91	Nancy Smith Contact instructor or department for details.	Seats (Total: 20)

PHSC401 **History of Public Health**

Credits: 3 Grading Method: Regular

Restriction: Must be in Public Health Science program; and must have earned a minimum of 45 credits. Credit only granted for: PHSC401 or SPHL401. Formerly: SPHL401.

Emphasis is on the history of public health in the Western world from antiquity to the present. Also examines the influence of public health developments as they relate to the Western world as well as throughout diverse cultures and societies across the globe. Analysis focuses on the interaction among Western and non-Western cultures with respect to health issues, including science, policies, prevention and treatment.

0101	David Cantor MW 5:00pm - 5:50pm M 9:00am - 9:50am	Seats (Total: 20) ESJ 2208 SPH 0307	Discussion
0102	David Cantor MW 5:00pm - 5:50pm M 10:00am - 10:50am	Seats (Total: 20) ESJ 2208 SPH 0307	Discussion
0103	David Cantor MW 5:00pm - 5:50pm M 11:00am - 11:50am	Seats (Total: 20) ESJ 2208 SPH 0307	Discussion
0104	David Cantor MW 5:00pm - 5:50pm M 12:00pm - 12:50pm	Seats (Total: 20) ESJ 2208 SPH 0301	Discussion
0105	David Cantor MW 5:00pm - 5:50pm M 1:00pm - 1:50pm	Seats (Total: 20) ESJ 2208 SPH 0301	Discussion
0106	David Cantor MW 5:00pm - 5:50pm M 2:00pm - 2:50pm	Seats (Total: 20) ESJ 2208 SPH 0305	Discussion
SG91	Eric Boyle Th 6:00pm - 8:30pm	Seats (Total: 35) BLD3 4220	

PHSC410 Public Health Program Planning and Evaluation

Credits: 3 Grading Method: Regular

Restriction: Must be in Public Health Science program; and junior standing or higher. Credit only granted for: PHSC410 or SPHL410. Formerly: SPHL410.

Students will become familiar with the dynamics of public health progra planning, and the basic process of identifying unmet needs. They will be able to identify different types of program evaluation, including needs assessment, formative research, process evaluation, impact assessment, and cost analysis.

SG91	Nancy Smith Th 2:00pm - 4:30pm	Seats (Total: 35) BLD3 2225	
	Class meets at the Shady Grove campus. Restricted to School of Public Health students. Permission of program director is required to other UMCP undergraduate students to enroll.		

PHSC412 **Food, Policy, and Public Health**

Credits: 3 Grading Method: Regular

Prerequisite: Must have completed HLSA300 with a C- or higher. Recommended: NFSC100. Restriction: Must be in Public Health Science program; and junior standing or higher. Credit only granted for: PHSC412 or SPHL412. Formerly: SPHL412.

Broad overview of the impact of food and food policy on public health. Course covers topics such as access to food, food systems, influence of food policies on the individual, the cost of food, influences on food selection, food safety risks and responses, nutrition-related health challenges, and a comparison of US food/nutrition issues with those of other nations.

0101	Christopher Waldrop W 5:00pm - 7:30pm	Seats (Total: 35) PLS 1117	
SG91	Michael Bazaco W 6:00pm - 8:30pm	Seats (Total: 35) BLD3 4226	

PHSC415 **Essentials of Public Health Biology: The Cell, The Individual, and Disease**

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in BSCI202. Recommended: BSCI223. Restriction: Must be in Public Health Science program; and junior standing or higher. Credit only granted for: PHSC415, SPHL415 or SPHL498J. Formerly: SPHL415 and SPHL498J.

Presents the basic scientific and biomedical concepts of modern public health problems and explores in depth mechanisms and models of the major categories of disease. The biologic principles presented are foundations to public health disease prevention, control, or management programs.

0101	Jessica O'Hara MW 1:00pm - 1:50pm W 2:00pm - 2:50pm	Seats (Total: 20) ESJ 2208 PLS 1172	Discussion

0102	Jessica O'Hara MW 1:00pm - 1:50pm W 3:00pm - 3:50pm	Seats (Total: 20) ESJ 2208 PLS 1176	Discussion
0103	Jessica O'Hara MW 1:00pm - 1:50pm W 4:00pm - 4:50pm	Seats (Total: 20) ESJ 2208 PLS 1176	Discussion
0104	Jessica O'Hara MW 1:00pm - 1:50pm F 10:00am - 10:50am	Seats (Total: 20) ESJ 2208 PLS 1164	Discussion
0105	Jessica O'Hara MW 1:00pm - 1:50pm F 11:00am - 11:50am	Seats (Total: 20) ESJ 2208 PLS 1164	Discussion
0106	Jessica O'Hara MW 1:00pm - 1:50pm F 12:00pm - 12:50pm	Seats (Total: 20) ESJ 2208 PLS 1164	Discussion
0107	Jessica O'Hara MW 1:00pm - 1:50pm F 1:00pm - 1:50pm	Seats (Total: 20) ESJ 2208 PLS 1164	Discussion
SG91	Jessica O'Hara Tu 9:30am - 12:00pm	Seats (Total: 40) BLD3 4212	
	Class meets at the Shady Grove campus. Restricted to School of Public Health students. Permission of program director is required for other UMCP undergraduate students to enroll.		

PHSC430 **Public Health in the City: Perspectives on Health in the Urban Environment**

Credits: 3 Grading Method: Regular General Education: DSHS, DVUP, SCIS

Prerequisite: Minimum grade of C- in BSCI202 and MIEH300. Restriction: Must be in Public Health Science program; and junior standing or higher. Credit only granted for: PHSC430 or SPHL498G. Formerly: SPHL498G.

Exposure to issues related to city habitation and the health of the public, including how the urban environment impacts the lives and health of city dwellers, including discussion of the social determinants of health. Students are encouraged to think about urban health and policy, and to question the current state of urban public health. Issues of race, class, and equality will be discussed throughout the course as they relate to each of these topics.

0101	Alyssa Brooks M 5:00pm - 7:30pm	Seats (Total: 35) SPH 0307

PHSC497 **Public Health Science Capstone**

Credits: 3 Grading Method: Regular General Education: DSSP

Prerequisite: Must have completed the professional writing requirement with a C- or higher; and minimum grade of C- in MIEH400. Restriction: Must have earned a minimum of 100 credits; and must be in Public Health Science program; and must be in the final semester of undergraduate study. Credit only granted for: SPHL498F or PHSC497. Formerly: SPHL498F.

The capstone course is the culminating experience for Public Health Science students and must be taken only in the final semester of study. The Public Health Science capstone course is designed to challenge students to integrate the five core areas of public health in investigating, researching and addressing public health issues. Throughout the semester, students will be required to evaluate, analyze and synthesize scholarly works as they research and propose solutions to a variety of public health issues. By the conclusion of this research based course, students will understand how the various public health perspectives can combine in addressing and informing public health practices.

0101	Ellesse-Roselee Akre M 5:00pm - 7:30pm	Seats (Total: 20) PLS 1158
0301	Kendall Bustad Tu 4:00pm - 6:30pm	Seats (Total: 20) ATL 2316
0601	Elizabeth Bell W 6:00pm - 8:30pm	Seats (Total: 20) ATL 2416
SG91	Alyssa Brooks Tu 5:00pm - 7:30pm	Seats (Total: 20) BLD3 4212

PHYS Physics Fall 2018

PHYS102 **Physics of Music**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSNL (if taken with PHYS103)

Prerequisite: Must have math eligibility of MATH107 or higher. Credit only granted for: PHYS102 and PHYS499C. Additional information: CORE Distributive Studies Physical Sciences Laboratory Course only when taken concurrently with PHYS103.

A study of the physical basis of sound, acoustical properties of sound, the human ear and voice, reproduction of sound, electronic music, acoustical properties of auditoriums, and other selected topics.

0101	Matthew Severson TuTh 9:30am - 10:45am	Seats (Total: 150) PHY 1410	

PHYS103 Physics of Music Laboratory

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Optional laboratory to accompany PHYS 102. Laboratory experiments, including the velocity of sound, sound quality and wave shape, traveling and standing waves, fourier synthesis and analysis, musical synthesizer, psychoacoustics, and audio equipment.

0101	Andris Skuja Th 11:00am - 12:50pm	Seats (Total: 18) PHY 3220	Lab
0301	Andris Skuja Th 3:30pm - 5:20pm	Seats (Total: 18) PHY 3220	Lab
0401	Andris Skuja F 10:00am - 11:50am *Recommended for First-Year students.*	Seats (Total: 18) PHY 3220	Lab
0501	Andris Skuja F 12:00pm - 1:50pm	Seats (Total: 18) PHY 3220	Lab
0601	Andris Skuja F 2:00pm - 3:50pm	Seats (Total: 18) PHY 3220	Lab
0701	Andris Skuja W 3:00pm - 5:00pm	Seats (Total: 18) PHY 3220	Lab
0801	Andris Skuja W 1:00pm - 2:50pm	Seats (Total: 18) PHY 3220	Lab

PHYS105 Physics for Decision Makers: Global Energy Crisis

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: PS | General Education: DSNS, SCIS

This marquee course will consider the global energy crisis from a scientific perspective. Topics include basic laws of energy and thermodynamics, their effects on energy production and distribution, greenhouse gas, global warming and policy options for decision makers. This course is aimed at the non-science major.

0102	Steven Rolston TuTh 12:30pm - 1:45pm M 1:00pm - 1:50pm	Seats (Total: 24) PHY 1201 PHY 0405	 Discussion
0104	Steven Rolston TuTh 12:30pm - 1:45pm F 12:00pm - 12:50pm	Seats (Total: 24) PHY 1201 PLS 1184	 Discussion

PHYS111 **Physics in the Modern World**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: PS

A survey course in general physics emphasizing the role that physics plays in science, technology, and society today. The course is concept oriented and minimal use of mathematics is made. Intended for the general student; does not satisfy the requirements of the professional schools.

Contact department for information to register for this course.

PHYS115 **Inquiry into Physics**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | CORE: PL | General Education: DSNL

Recommended: High School Physics. Restriction: Must not have completed PHYS117; and must be in one of the following programs (Elementary Education; Early Childhood Education; Middle School Education). Credit only granted for: PHYS115 or PHYS117.

Intended for students majoring in neither the physical nor the biological sciences. Use of laboratory-based and inquiry-based methods to study some of the basic ideas of physical sciences.

0101	Hannah Sabo MWF 1:00pm - 2:50pm	Seats (Total: 20) PHY 3316	 Lab
0201	Arpita Upadhyaya MWF 9:00am - 10:50am	Seats (Total: 20) PHY 3316	 Lab

PHYS121 **Fundamentals of Physics I**

Credits: 4	Grading Method: Regular, Pass-Fail, Audit	CORE: PL	General Education: DSNL

Prerequisite: MATH112 or MATH115. Credit only granted for: PHYS121, PHYS131, or PHYS331.

The first part of a two-semester course in general physics treating the fields of mechanics, heat, sound, electricity, magnetism, optics, and modern physics. Together with PHYS122, this generally satisfies the minimum requirement of medical and dental schools.

Physics clinic, PHY 1214, MTWHF 11,1. If purchasing used books additional software may be required. Students must pay a $50.00 laboratory materials fee.

0201	Barbara Marchetti	Seats (Total: 26)	
	MWF 12:00pm - 12:50pm	PHY 1412	
	M 10:00am - 11:50am	PHY 3306	Lab
	M 9:00am - 9:50am	PHY 0405	Discussion
0202	Barbara Marchetti	Seats (Total: 26)	
	MWF 12:00pm - 12:50pm	PHY 1412	
	M 2:00pm - 3:50pm	PHY 3306	Lab
	M 1:00pm - 1:50pm	MTH 0104	Discussion
0203	Barbara Marchetti	Seats (Total: 26)	
	MWF 12:00pm - 12:50pm	PHY 1412	
	Tu 9:00am - 10:50am	PHY 3306	Lab
	Tu 8:00am - 8:50am	PHY 1402	Discussion
0204	Barbara Marchetti	Seats (Total: 26)	
	MWF 12:00pm - 12:50pm	PHY 1412	
	Tu 3:00pm - 4:50pm	PHY 3306	Lab
	Tu 2:00pm - 2:50pm	MTH 0403	Discussion
0205	Barbara Marchetti	Seats (Total: 26)	
	MWF 12:00pm - 12:50pm	PHY 1412	
	W 5:00pm - 6:50pm	PHY 3306	Lab
	W 4:00pm - 4:50pm	MTH 0302	Discussion
0206	Barbara Marchetti	Seats (Total: 26)	
	MWF 12:00pm - 12:50pm	PHY 1412	
	W 3:00pm - 4:50pm	PHY 3306	Lab
	W 2:00pm - 2:50pm	MTH 0302	Discussion

0401	Kishan Yerubandi	Seats (Total: 26)	
	Tu 7:00pm - 8:50pm	PHY 1410	
	Th 6:30pm - 7:20pm	PHY 1410	
	M 8:00pm - 9:50pm	PHY 3306	Lab
	W 6:30pm - 7:20pm	PHY 1402	Discussion
0402	Kishan Yerubandi	Seats (Total: 26)	
	Tu 7:00pm - 8:50pm	PHY 1410	
	Th 6:30pm - 7:20pm	PHY 1410	
	W 7:30pm - 9:20pm	PHY 3306	Lab
	M 6:30pm - 7:20pm	PHY 1402	Discussion
0403	Kishan Yerubandi	Seats (Total: 26)	
	Tu 7:00pm - 8:50pm	PHY 1410	
	Th 6:30pm - 7:20pm	PHY 1410	
	Tu 5:00pm - 6:50pm	PHY 3306	Lab
	Th 7:30pm - 8:20pm	PHY 1219	Discussion
0405	Kishan Yerubandi	Seats (Total: 16)	
	Tu 7:00pm - 8:50pm	PHY 1410	
	Th 6:30pm - 7:20pm	PHY 1410	
	Th 7:30pm - 9:20pm	PHY 3306	Lab
	Tu 6:00pm - 6:50pm	MTH 0201	Discussion
SEF1	Kishan Yerubandi	Seats (Total: 10)	
	Tu 7:00pm - 8:50pm	PHY 1410	
	Th 6:30pm - 7:20pm	PHY 1410	
	Th 7:30pm - 9:20pm	PHY 3306	Lab
	Tu 6:00pm - 6:50pm	MTH 0201	Discussion
	Restricted to students in the SIE Program. Click here for more information.		

PHYS122 **Fundamentals of Physics II**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | CORE: PL | General Education: DSNL

Prerequisite: PHYS121; or students who have taken courses with comparable content may contact the department. Credit only granted for: PHYS122, PHYS132, or PHYS332.

A continuation of PHYS121, which together with it, generally satisfies the minimum requirement of medical and dental schools.

Physics clinic, PHY 1214, MTWHF 12,2. If purchasing used books additional software may be required. Students must pay a $50.00 laboratory materials fee.

0101	Negar Heidarian Boroujeni MWF 1:00pm - 1:50pm M 4:00pm - 5:50pm M 3:00pm - 3:50pm	Seats (Total: 24) PHY 1410 PHY 3314 EGR 2116	 Lab Discussion
0102	Negar Heidarian Boroujeni MWF 1:00pm - 1:50pm Tu 10:00am - 11:50am Tu 9:00am - 9:50am	Seats (Total: 24) PHY 1410 PHY 3314 ATL 0201	 Lab Discussion
0105	Negar Heidarian Boroujeni MWF 1:00pm - 1:50pm Tu 4:00pm - 5:50pm Th 4:00pm - 4:50pm	Seats (Total: 24) PHY 1410 PHY 3314 PHY 1204	 Lab Discussion
0401	Negar Heidarian Boroujeni MW 6:00pm - 7:15pm M 7:30pm - 9:20pm W 7:30pm - 8:20pm	Seats (Total: 18) PHY 1201 PHY 3314 PHY 1204	 Lab Discussion
0402	Negar Heidarian Boroujeni MW 6:00pm - 7:15pm W 7:30pm - 9:20pm M 7:30pm - 8:20pm	Seats (Total: 24) PHY 1201 PHY 3314 PHY 1204	 Lab Discussion
SEF1	Negar Heidarian Boroujeni MW 6:00pm - 7:15pm M 7:30pm - 9:20pm W 7:30pm - 8:20pm *Restricted to students in the SIE Program. Click here for more information.*	Seats (Total: 6) PHY 1201 PHY 3314 PHY 1204	 Lab Discussion

PHYS131 **Fundamentals of Physics for Life Sciences I**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHEM131; and (MATH131 or MATH136); and (BSCI160 and BSCI161; or BSCI106); and (BSCI170 and BSCI171; or BSCI105). Or students who have taken courses with comparable content may contact the department. Credit only granted for: PHYS121, PHYS131, or PHYS331.

The first part of a two-semester course in general physics specifically oriented towards applications relevant for students in biology and pre-medical programs. The course covers basic mechanics including forces and energy, properties of matter, and thermodynamics done in authentic biological contexts.

Students must pay a $50.00 laboratory materials fee.

0101	Edward Redish	Seats (Total: 24)	
	MWF 10:00am - 10:50am	ESJ 1224	
	W 5:00pm - 6:50pm	PHY 3310	Lab
	W 4:00pm - 4:50pm	PHY 3310	Discussion
0102	Edward Redish	Seats (Total: 24)	
	MWF 10:00am - 10:50am	ESJ 1224	
	M 4:00pm - 5:50pm	PHY 3310	Lab
	M 3:00pm - 3:50pm	PHY 3310	Discussion
0103	Edward Redish	Seats (Total: 24)	
	MWF 10:00am - 10:50am	ESJ 1224	
	Tu 10:00am - 11:50am	PHY 3310	Lab
	Tu 9:00am - 9:50am	PHY 3310	Discussion
0104	Edward Redish	Seats (Total: 24)	
	MWF 10:00am - 10:50am	ESJ 1224	
	W 1:00pm - 2:50pm	PHY 3310	Lab
	W 12:00pm - 12:50pm	PHY 3310	Discussion
0107	Edward Redish	Seats (Total: 24)	
	MWF 10:00am - 10:50am	ESJ 1224	
	M 7:00pm - 8:50pm	PHY 3310	Lab
	M 6:00pm - 6:50pm	PHY 3310	Discussion
0108	Edward Redish	Seats (Total: 1)	
	MWF 10:00am - 10:50am	ESJ 1224	
	Tu 8:00pm - 9:50pm	PHY 3310	Lab
	Tu 7:00pm - 7:50pm	PHY 3310	Discussion
0201	David Buehrle	Seats (Total: 24)	
	TuTh 2:00pm - 3:15pm	PHY 1410	
	M 12:00pm - 1:50pm	PHY 3310	Lab
	M 11:00am - 11:50am	PHY 3310	Discussion

0202	David Buehrle	Seats (Total: 24)	
	TuTh 2:00pm - 3:15pm	PHY 1410	
	Tu 5:00pm - 6:50pm	PHY 3310	Lab
	Tu 4:00pm - 4:50pm	PHY 3310	Discussion
0203	David Buehrle	Seats (Total: 24)	
	TuTh 2:00pm - 3:15pm	PHY 1410	
	Th 10:00am - 11:50am	PHY 3310	Lab
	Th 9:00am - 9:50am	PHY 3310	Discussion
0204	David Buehrle	Seats (Total: 24)	
	TuTh 2:00pm - 3:15pm	PHY 1410	
	Th 5:00pm - 6:50pm	PHY 3310	Lab
	Th 4:00pm - 4:50pm	PHY 3310	Discussion
0205	David Buehrle	Seats (Total: 24)	
	TuTh 2:00pm - 3:15pm	PHY 1410	
	W 10:00am - 11:50am	PHY 3310	Lab
	W 9:00am - 9:50am	PHY 3310	Discussion
0208	David Buehrle	Seats (Total: 20)	
	TuTh 2:00pm - 3:15pm	PHY 1410	
	Tu 8:00pm - 9:50pm	PHY 3310	Lab
	Tu 7:00pm - 7:50pm	PHY 3310	Discussion

PHYS132 **Fundamentals of Physics for Life Sciences II**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS131; or students who have taken courses with comparable content may contact the department. Credit only granted for: PHYS122, PHYS132, or PHYS332.

The second part of a two-semester course in general physics specifically oriented towards applications relevant for students in biology and pre-medical programs. The course covers basic statistical physics, electricity and magnetism, and optics done in authentic biological contexts.

Students must pay a $50.00 laboratory materials fee.

0101	David Buehrle	Seats (Total: 24)	
	MWF 11:00am - 11:50am	PHY 1412	
	Tu 1:00pm - 2:50pm	PHY 3312	Lab
	Tu 12:00pm - 12:50pm	PHY 3312	Discussion

0102	David Buehrle	Seats (Total: 24)	
	MWF 11:00am - 11:50am	PHY 1412	
	Th 4:00pm - 5:50pm	PHY 3312	Lab
	Th 3:00pm - 3:50pm	PHY 3312	Discussion
0103	David Buehrle	Seats (Total: 24)	
	MWF 11:00am - 11:50am	PHY 1412	
	M 4:00pm - 5:50pm	PHY 3312	Lab
	M 3:00pm - 3:50pm	PHY 3312	Discussion
0104	David Buehrle	Seats (Total: 24)	
	MWF 11:00am - 11:50am	PHY 1412	
	W 4:00pm - 5:50pm	PHY 3312	Lab
	W 3:00pm - 3:50pm	PHY 3312	Discussion
0105	David Buehrle	Seats (Total: 24)	
	MWF 11:00am - 11:50am	PHY 1412	
	Tu 4:00pm - 5:50pm	PHY 3312	Lab
	Tu 3:00pm - 3:50pm	PHY 3312	Discussion
0201	David Buehrle	Seats (Total: 24)	
	TuTh 12:30pm - 1:45pm	PHY 1412	
	M 10:00am - 11:50am	PHY 3312	Lab
	M 9:00am - 9:50am	PHY 3312	Discussion
0203	David Buehrle	Seats (Total: 24)	
	TuTh 12:30pm - 1:45pm	PHY 1412	
	M 1:00pm - 2:50pm	PHY 3312	Lab
	M 12:00pm - 12:50pm	PHY 3312	Discussion
0204	David Buehrle	Seats (Total: 24)	
	TuTh 12:30pm - 1:45pm	PHY 1412	
	W 1:00pm - 2:50pm	PHY 3312	Lab
	W 12:00pm - 12:50pm	PHY 3312	Discussion

PHYS161 **General Physics: Mechanics and Particle Dynamics**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: PS | General Education: DSNS

Prerequisite: Must have completed or be concurrently enrolled in MATH141. Credit only granted for: PHYS141, PHYS161, or PHYS171.

First semester of a three-semester calculus-based general physics course. Laws of motion, force, and energy; principles of mechanics, collisions, linear momentum, rotation, and gravitation.

Physics clinic, PHY 1214, MTWHF 11, 2. If purchasing used books additional software may be required.

0101	David Buehrle MWF 3:00pm - 3:50pm Tu 3:00pm - 3:50pm	Seats (Total: 37) PHY 1410 PHY 0405	 Discussion
0104	David Buehrle MWF 3:00pm - 3:50pm F 11:00am - 11:50am	Seats (Total: 37) PHY 1410 PHY 0405	 Discussion
0201	Hailu Gebremariam TuTh 11:00am - 12:15pm Th 8:00am - 8:50am	Seats (Total: 37) PHY 1410 PHY 0405	 Discussion
0202	Hailu Gebremariam TuTh 11:00am - 12:15pm Tu 2:00pm - 2:50pm	Seats (Total: 37) PHY 1410 EGR 0135	 Discussion
0203	Hailu Gebremariam TuTh 11:00am - 12:15pm W 3:00pm - 3:50pm	Seats (Total: 37) PHY 1410 CHM 0128	 Discussion
0204	Hailu Gebremariam TuTh 11:00am - 12:15pm W 4:00pm - 4:50pm	Seats (Total: 35) PHY 1410 MTH 0303	 Discussion
0301	Matthew Severson MWF 10:00am - 10:50am Th 3:00pm - 3:50pm	Seats (Total: 37) PHY 1410 HBK 0109	 Discussion
0302	Matthew Severson MWF 10:00am - 10:50am Tu 4:00pm - 4:50pm	Seats (Total: 37) PHY 1410 PHY 1219	 Discussion
0303	Matthew Severson MWF 10:00am - 10:50am W 12:00pm - 12:50pm	Seats (Total: 37) PHY 1410 PHY 0405	 Discussion

0304	Matthew Severson	Seats (Total: 35)	
	MWF 10:00am - 10:50am W 3:00pm - 3:50pm	PHY 1410 EGR 3106	Discussion

PHYS165 **Introduction to Programming in the Physical Sciences**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS171, PHYS141, or PHYS161; or must have scored 3 or higher on AP PHYS exam.

Introduction to programming using examples in the physical sciences. Provides instruction in the techniques of upper-level languages such as Fortran, C, and Pascal, as well as an introduction to the object oriented programming techniques used in Python, C++ and Java. Includes strong component of visualization and graphing.

0101	Gregory Sullivan	Seats (Total: 35)
	TuTh 9:30am - 10:45am	PHY 1219

PHYS170 **Professional Physics Seminar**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Corequisite: MATH140. Restriction: Must be in Physics program; or must be in Physics-Education program; or permission of instructor.

Provides a look at some of the major developments of current interest i physics research and discusses the activities physicists undertake in research, education, industry, government, and other areas of the economy.

0101	Thomas Gleason, Donna Hammer	Seats (Total: 35)
	W 12:00pm - 12:50pm	PHY 4221

PHYS171 **Introductory Physics: Mechanics and Relativity**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: PS General Education: DSNS

Prerequisite: (MATH140; and a high school physics course); or permission of CMNS-Physics department. And must have completed or be concurrently enrolled in MATH141. Credit only granted for: PHYS141, PHYS161, or PHYS171.

First semester of a three semester sequence for physics majors and those desiring a rigorous preparation in the physical sciences: kinematics, Newton's laws, energy and work, linear and angular momenta, temperature and pressure, ideal gas law, and special relativity.

Also offered as PHYS 171H.

0201	Peter Shawhan	Seats (Total: 55)	
	MWF 9:00am - 9:50am Th 9:00am - 9:50am	PHY 1201 HJP 2242	Discussion

PHYS171H **Introductory Physics: Mechanics and Relativity**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: PS | General Education: DSNS

Prerequisite: (MATH140; and a high school physics course); or permission of CMNS-Physics department. And must have completed or be concurrently enrolled in MATH141. Credit only granted for: PHYS141, PHYS161, or PHYS171.

First semester of a three semester sequence for physics majors and those desiring a rigorous preparation in the physical sciences: kinematics, Newton's laws, energy and work, linear and angular momenta, temperature and pressure, ideal gas law, and special relativity.

Also offered as PHYS171.

0201	Peter Shawhan	Seats (Total: 55)	
	MWF 9:00am - 9:50am Th 9:00am - 9:50am	PHY 1201 HJP 2242	Discussion

PHYS174 **Physics Laboratory Introduction**

Credits: 1 | Grading Method: Regular, Pass-Fail, Audit

Corequisite: MATH140. Recommended: High school physics.

Introduces students to the techniques of data gathering and analysis. This course will lay a foundation for higher-level labs in physics and the physical sciences. Students will learn to use laboratory equipment such as calipers, meters, oscilloscopes, and computer interfaces. Techniques of measurement and error analysis will be presented. Students will be taught to use the computer for data analysis with an emphasis on using spreadsheets.

0102	Theodore Einstein	Seats (Total: 26)	
	W 2:00pm - 3:50pm	PHY 3115	Lab
0103	Anwar Bhatti	Seats (Total: 26)	
	Th 3:30pm - 5:20pm	PHY 3115	Lab

0105	Anwar Bhatti W 12:00pm - 1:50pm	Seats (Total: 26) PHY 3115	Lab
0106	Anwar Bhatti W 10:00am - 11:50am	Seats (Total: 26) PHY 3115	Lab
0107	Theodore Einstein Tu 9:00am - 10:50am	Seats (Total: 26) PHY 3115	Lab
0108	Theodore Einstein W 4:00pm - 5:50pm	Seats (Total: 26) PHY 3115	Lab

PHYS199M **The Manhattan Project**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: PS | General Education: DSHS, DSNS, SCIS

This course explores the development of the atomic bomb during the Manhattan project. Nuclear Physics is introduced in a historical context from the discovery of radioactivity in 1896 to the discovery of nuclear fission in Germany in 1938; this historical approach allows students to understand how scientific knowledge is built up over time.

0101	Thomas Cohen MW 4:00pm - 5:15pm M 1:00pm - 1:50pm	Seats (Total: 25) PHY 1410 PHY 1402	Discussion
0102	Thomas Cohen MW 4:00pm - 5:15pm M 2:00pm - 2:50pm	Seats (Total: 25) PHY 1410 PHY 0405	Discussion
0103	Thomas Cohen MW 4:00pm - 5:15pm Tu 2:00pm - 2:50pm	Seats (Total: 25) PHY 1410 PHY 0405	Discussion
0104	Thomas Cohen MW 4:00pm - 5:15pm W 1:00pm - 1:50pm	Seats (Total: 25) PHY 1410 PHY 1402	Discussion

PHYS260 **General Physics: Vibration, Waves, Heat, Electricity and Magnetism**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSNL (if taken with PHYS261)

Prerequisite: PHYS161 and MATH141. Corequisite: PHYS261. Credit only granted for: PHYS142, PHYS260, or PHYS272.

Second semester of a three-semester calculus-based general physics course. Vibrations, waves, fluids; heat, kinetic theory, and thermodynamics; electrostatics, circuits, and magnetism. PHYS260 and PHYS261 must be taken in the same semester.

If purchasing used books additional software may be required.

0101	Howard Milchberg MW 4:30pm - 5:45pm Tu 11:00am - 11:50am	Seats (Total: 30) PHY 1412 PLS 1119	 Discussion
0102	Howard Milchberg MW 4:30pm - 5:45pm W 10:00am - 10:50am	Seats (Total: 30) PHY 1412 PHY 0405	 Discussion
0104	Howard Milchberg MW 4:30pm - 5:45pm W 9:00am - 9:50am	Seats (Total: 30) PHY 1412 PHY 0405	 Discussion
0105	Howard Milchberg MW 4:30pm - 5:45pm F 3:00pm - 3:50pm	Seats (Total: 30) PHY 1412 PHY 1204	 Discussion
0201	Hailu Gebremariam MW 3:00pm - 4:15pm Tu 8:00am - 8:50am	Seats (Total: 30) PHY 1412 PHY 0405	 Discussion
0202	Hailu Gebremariam MW 3:00pm - 4:15pm Tu 9:00am - 9:50am	Seats (Total: 30) PHY 1412 HBK 0105	 Discussion
0203	Hailu Gebremariam MW 3:00pm - 4:15pm Tu 11:00am - 11:50am	Seats (Total: 30) PHY 1412 PLS 1111	 Discussion
0204	Hailu Gebremariam MW 3:00pm - 4:15pm F 2:00pm - 2:50pm	Seats (Total: 30) PHY 1412 PHY 1402	 Discussion

0205	Hailu Gebremariam MW 3:00pm - 4:15pm W 12:00pm - 12:50pm	Seats (Total: 30) PHY 1412 PHY 1219	 Discussion
0206	Hailu Gebremariam MW 3:00pm - 4:15pm M 4:30pm - 5:20pm	Seats (Total: 30) PHY 1412 PHY 1219	 Discussion
0207	Hailu Gebremariam MW 3:00pm - 4:15pm W 4:30pm - 5:20pm	Seats (Total: 30) PHY 1412 MTH B0423	 Discussion
0301	Rabindra Mohapatra TuTh 2:00pm - 3:15pm M 12:00pm - 12:50pm	Seats (Total: 34) PHY 1412 PHY 1219	 Discussion
0302	Rabindra Mohapatra TuTh 2:00pm - 3:15pm W 11:00am - 11:50am	Seats (Total: 35) PHY 1412 PHY 0405	 Discussion
0303	Rabindra Mohapatra TuTh 2:00pm - 3:15pm Tu 12:00pm - 12:50pm	Seats (Total: 33) PHY 1412 PLS 1111	 Discussion
0304	Rabindra Mohapatra TuTh 2:00pm - 3:15pm F 1:00pm - 1:50pm	Seats (Total: 32) PHY 1412 PHY 1402	 Discussion
0305	Rabindra Mohapatra TuTh 2:00pm - 3:15pm Tu 1:00pm - 1:50pm	Seats (Total: 30) PHY 1412 PHY 0405	 Discussion
0401	Raymond Fermo M 7:00pm - 8:50pm W 7:00pm - 7:50pm W 8:00pm - 8:50pm	Seats (Total: 30) PHY 1410 PHY 1410 PHY 0405	 Discussion
0402	Raymond Fermo M 7:00pm - 8:50pm W 7:00pm - 7:50pm W 6:00pm - 6:50pm	Seats (Total: 30) PHY 1410 PHY 1410 PHY 1219	 Discussion

0501	Michelle Girvan TuTh 3:30pm - 4:45pm F 9:00am - 9:50am	Seats (Total: 30) PHY 1410 PHY 0405	Discussion
0502	Michelle Girvan TuTh 3:30pm - 4:45pm F 12:00pm - 12:50pm	Seats (Total: 30) PHY 1410 PHY 0405	Discussion
0503	Michelle Girvan TuTh 3:30pm - 4:45pm F 10:00am - 10:50am	Seats (Total: 30) PHY 1410 PHY 1219	Discussion
0504	Michelle Girvan TuTh 3:30pm - 4:45pm W 10:00am - 10:50am	Seats (Total: 30) PHY 1410 PHY 1219	Discussion

PHYS260H **General Physics: Vibration, Waves, Heat, Electricity and Magnetism**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSNL (if taken with PHYS261)

Prerequisite: PHYS161 and MATH141. Corequisite: PHYS261. Credit only granted for: PHYS142, PHYS260, or PHYS272.

Second semester of a three-semester calculus-based general physics course. Vibrations, waves, fluids; heat, kinetic theory, and thermodynamics; electrostatics, circuits, and magnetism. PHYS260 and PHYS261 must be taken in the same semester.

If purchasing used books additional software may be required.

0301	Rabindra Mohapatra TuTh 2:00pm - 3:15pm M 12:00pm - 12:50pm	Seats (Total: 25) PHY 1412 HBK 0105	Discussion

PHYS261 **General Physics: Vibrations, Waves, Heat, Electricity and Magnetism (Laboratory)**

Credits: 1 | Grading Method: Regular, Pass-Fail, Audit

Corequisite: PHYS260.

Lab includes experiments on mechanics, vibrations, waves, heat, electricity and magnetism. PHYS260 and PHYS261 (lab) must be taken in the same semester.

Students must pay a $50.00 laboratory materials fee.

0202	Matthew Severson M 10:30am - 12:50pm	Seats (Total: 36) PHY 3219	Lab
0203	Matthew Severson M 1:00pm - 3:20pm	Seats (Total: 36) PHY 3219	Lab
0204	Matthew Severson M 4:30pm - 6:50pm	Seats (Total: 36) PHY 3219	Lab
0205	Matthew Severson M 7:00pm - 9:20pm	Seats (Total: 36) PHY 3219	Lab
0206	Matthew Severson Tu 9:00am - 11:20am	Seats (Total: 36) PHY 3219	Lab
0207	Matthew Severson Tu 11:30am - 1:50pm	Seats (Total: 36) PHY 3219	Lab
0208	Matthew Severson Tu 2:00pm - 4:20pm	Seats (Total: 36) PHY 3219	Lab
0209	Matthew Severson Tu 4:30pm - 6:50pm	Seats (Total: 36) PHY 3219	Lab
0210	Matthew Severson Tu 7:00pm - 9:20pm	Seats (Total: 36) PHY 3219	Lab
0212	Matthew Severson W 10:30am - 12:50pm	Seats (Total: 36) PHY 3219	Lab
0213	Matthew Severson W 1:00pm - 3:20pm	Seats (Total: 36) PHY 3219	Lab
0214	Matthew Severson W 4:30pm - 6:50pm	Seats (Total: 36) PHY 3219	Lab
0215	Matthew Severson W 7:00pm - 9:20pm	Seats (Total: 36) PHY 3219	Lab
0216	Matthew Severson Th 9:00am - 11:20am	Seats (Total: 36) PHY 3219	Lab

0217	Matthew Severson Th 11:30am - 1:50pm	Seats (Total: 36) PHY 3219	Lab
0218	Matthew Severson Th 2:00pm - 4:20pm	Seats (Total: 36) PHY 3219	Lab
0219	Matthew Severson Th 4:30pm - 6:50pm	Seats (Total: 36) PHY 3219	Lab
0220	Matthew Severson Th 7:00pm - 9:20pm	Seats (Total: 20) PHY 3219	Lab
0221	Matthew Severson F 9:00am - 11:20am	Seats (Total: 36) PHY 3219	Lab

PHYS270 **General Physics: Electrodynamics, Light, Relativity and Modern Physics**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSNL (if taken with PHYS271)

Prerequisite: PHYS261, MATH241, and PHYS260. Corequisite: PHYS271.

Third semester of a three-semester calculus-based general physics course. Electrodynamics, Maxwell's equations and electromagnetic waves, geometrical optics, interference, diffraction, special theory of relativity, and modern physics. PHYS270 and PHYS271 (lab) must be taken in the same semester.

If purchasing used books additional software may be required.

0101	Hailu Gebremariam TuTh 5:00pm - 6:15pm Th 2:00pm - 2:50pm	Seats (Total: 35) PHY 1410 EGR 3106	Discussion
0102	Hailu Gebremariam TuTh 5:00pm - 6:15pm Th 4:00pm - 4:50pm	Seats (Total: 35) PHY 1410 PHY 1219	Discussion
0103	Hailu Gebremariam TuTh 5:00pm - 6:15pm W 9:00am - 9:50am	Seats (Total: 35) PHY 1410 CHM 0128	Discussion
0301	Hailu Gebremariam MWF 12:00pm - 12:50pm W 1:00pm - 1:50pm	Seats (Total: 35) PHY 1410 PHY 0405	Discussion

0302	Hailu Gebremariam MWF 12:00pm - 12:50pm W 2:00pm - 2:50pm	Seats (Total: 35) PHY 1410 MTH 0304	Discussion
0303	Hailu Gebremariam MWF 12:00pm - 12:50pm F 2:00pm - 2:50pm	Seats (Total: 35) PHY 1410 MTH 0304	Discussion
0304	Hailu Gebremariam MWF 12:00pm - 12:50pm F 3:00pm - 3:50pm	Seats (Total: 35) PHY 1410 MTH 0304	Discussion

PHYS271 **General Physics: Electrodynamics, Light, Relativity and Modern Physics (Laboratory)**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS261. Corequisite: PHYS270.

Lab includes experiments on ac circuits, magnetism, light and modern physics. PHYS270 and PHYS271 (lab) must be taken in the same semester.

Students must pay a $50.00 laboratory materials fee.

0102	Matthew Severson M 3:00pm - 5:50pm	Seats (Total: 36) PHY 3213	Lab
0103	Matthew Severson M 6:00pm - 8:50pm	Seats (Total: 36) PHY 3213	Lab
0104	Matthew Severson W 4:00pm - 6:50pm	Seats (Total: 36) PHY 3213	Lab
0105	Matthew Severson Tu 10:00am - 12:50pm	Seats (Total: 36) PHY 3213	Lab
0106	Matthew Severson Tu 1:00pm - 3:50pm	Seats (Total: 36) PHY 3213	Lab
0108	Matthew Severson Tu 7:00pm - 9:50pm	Seats (Total: 36) PHY 3213	Lab

0117	Matthew Severson Th 11:00am - 1:50pm	Seats (Total: 36) PHY 3213	Lab
0118	Matthew Severson Th 2:00pm - 4:50pm	Seats (Total: 36) PHY 3213	Lab

PHYS272 **Introductory Physics: Fields**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSNL (if taken with PHYS275)

Prerequisite: PHYS161 or PHYS171; and MATH141; and must have completed or be concurrently enrolled in MATH241. Credit only granted for: PHYS142, (PHYS260 and PHYS261) or PHYS272.. Additional information: CORE Distributive Studies Physical Sciences Laboratory Course only when taken concurrently with PHYS275.

Second semester of a calculus based general physics course. Universal gravitation, electric and magnetic fields and potentials, simple circuits, Maxwell's equations in integral form. Continues the application of mathematics to conceptual models, now with more abstract components.

Also offered as PHYS 272H.

0101	Richard Greene TuTh 12:30pm - 1:45pm F 11:00am - 11:50am	Seats (Total: 54) PHY 1204 ESJ 2212	
0201	Jordan Goodman TuTh 2:00pm - 3:15pm M 12:00pm - 12:50pm	Seats (Total: 49) PHY 1204 PHY 4221	

PHYS272H **Introductory Physics: Fields**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSNL (if taken with PHYS275)

Prerequisite: PHYS161 or PHYS171; and MATH141; and must have completed or be concurrently enrolled in MATH241. Credit only granted for: PHYS142, (PHYS260 and PHYS261) or PHYS272.. Additional information: CORE Distributive Studies Physical Sciences Laboratory Course only when taken concurrently with PHYS275.

Second semester of a calculus based general physics course. Universal gravitation, electric and magnetic fields and potentials, simple circuits, Maxwell's equations in integral form. Continues the application of mathematics to conceptual models, now with more abstract components.

For general honors students only. Also offered as PHYS 272.

0101	Richard Greene TuTh 12:30pm - 1:45pm F 11:00am - 11:50am	Seats (Total: 54) PHY 1204 ESJ 2212
0201	Jordan Goodman TuTh 2:00pm - 3:15pm M 12:00pm - 12:50pm	Seats (Total: 49) PHY 1204 PHY 4221

PHYS273 **Introductory Physics: Waves**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH241 and PHYS272. Corequisite: PHYS274. Credit only granted for: (PHYS270 and PHYS271) or PHYS273.

Oscillations and AC circuits using complex variables, Fourier series an integrals, waves on strings, sound; electromagnetic waves from Maxwell's equations in differential form; physical optics.

Also offered as PHYS 273H.

0101	Ian Appelbaum TuTh 12:30pm - 1:45pm F 11:00am - 11:50am	Seats (Total: 62) PHY 1410 PHY 1410

PHYS273H **Introductory Physics: Waves**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH241 and PHYS272. Corequisite: PHYS274. Credit only granted for: (PHYS270 and PHYS271) or PHYS273.

Oscillations and AC circuits using complex variables, Fourier series an integrals, waves on strings, sound; electromagnetic waves from Maxwell's equations in differential form; physical optics.

For general honors students only. Also offered as PHYS 273.

0101	Ian Appelbaum TuTh 12:30pm - 1:45pm F 11:00am - 11:50am	Seats (Total: 62) PHY 1410 PHY 1410

PHYS274 **Mathematical Methods for Physics I**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH241 and PHYS272.

A first course in mathematical methods for physics. Topics include linear algebra, curvilinear coordinates and vector analysis.

0101	Raman Sundrum	Seats (Total: 50)
	MWF 12:00pm - 12:50pm	PHY 1201

PHYS275 **Experimental Physics I: Mechanics and Heat**

(Perm req)

Credits: 2

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS161 or PHYS171; and PHYS174. Additional information: CORE Physical Science Lab (PL) Course only when taken concurrently with PHYS272.

Methods and rationale of experimental physics. Intended for physics majors and science and engineering students who desire a more rigorous approach. Experiments chosen from the areas of mechanics (from PHYS171), gas laws, and heats. Theory and applications of error analysis.

0101	Min Ouyang	Seats (Total: 11)	
	M 2:00pm - 5:50pm	PHY 3104	Lab
0201	Min Ouyang	Seats (Total: 11)	
	W 2:00pm - 5:50pm	PHY 3104	Lab
0301	Alberto Belloni	Seats (Total: 11)	
	Tu 2:00pm - 5:50pm	PHY 3104	Lab
0401	Alberto Belloni	Seats (Total: 11)	
	Th 2:00pm - 5:50pm	PHY 3104	Lab

PHYS276 **Experimental Physics II: Electricity and Magnetism**

(Perm req)

Credits: 2

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS272 and PHYS275.

Second course in the three semester introductory sequence. Methods and rationale of experimental physics. Experiments chosen from the fields of electricity and magnetism including electrostatics, magnetostatics, magnetic induction, AC circuits.

0101	Sarah Eno M 2:00pm - 5:50pm	Seats (Total: 12) PHY 3120	 Lab
0201	Sarah Eno Tu 2:00pm - 5:50pm	Seats (Total: 12) PHY 3120	 Lab
0301	Frederick Wellstood Th 2:00pm - 5:50pm	Seats (Total: 11) PHY 3120	 Lab
0401	Frederick Wellstood W 2:00pm - 5:50pm	Seats (Total: 12) PHY 3120	 Lab

PHYS299 **Special Problems in Physics**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

Research or special study to complement courses taken elsewhere which are not fully equivalent to those in departmental requirements. Credit according to work done.

Contact department for information to register for this course.

PHYS331 **Physics for Life Sciences I**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHEM131; and (MATH131 or MATH136); and (BSCI160 and BSCI161; or BSCI106); and (BSCI170 and BSCI171; or BSCI105). Or students who have taken courses with comparable content may contact the department. Credit only granted for: PHYS121, PHYS131 or PHYS 331.

The first part of a two-semester course in general physics specifically oriented towards applications relevant for students in biology and pre-medical programs. The course covers basic mechanics including forces and energy, properties of matter, and thermodynamics done in authentic biological contexts.

SG91	Aaron Rappaport TuTh 9:30am - 10:45am F 2:00pm - 4:50pm F 1:00pm - 1:50pm	Seats (Total: 24) BLD2 3022 BLD2 4012 BLD1 217	 Lab Discussion
	Registration is restricted to Biological Sciences-Shady Grove majors. Permission is required for all other students to enroll in courses at Shady Grove. Please email usgbiosci@umd.edu for permission.		

PHYS371 **Modern Physics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS273 and PHYS274. Corequisite: PHYS373. Credit only granted for: PHYS371 or PHYS420. Additional information: This course is intended primarily for physics and astronomy majors.

Introduces students to special relativity, thermodynamics and quantum mechanics at an intermediate level.

0101	Paulo Bedaque MWF 1:00pm - 1:50pm	Seats (Total: 60) SYM 0200

PHYS373 **Mathematical Methods for Physics II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS273 and PHYS274.

A second course in mathematical methods for physics. Topics include introduction to ordinary differential equations, partial differential equations, and complex analysis.

0101	James Drake TuTh 9:30am - 10:45am	Seats (Total: 64) CCC 1205

PHYS375 **Experimental Physics III: Electromagnetic Waves, Optics and Modern Physics**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Prerequisite: PHYS276 and PHYS273.

Third course in the three-semester introductory sequence. Methods and rationale of experimental physics. Experiments chosen from the areas of electromagnetic waves, optics and modern physics.

Besides lab hours scheduled below, additional required lab time will be arranged.

0101	Andris Skuja, Wendell Hill M 2:00pm - 2:50pm M 3:00pm - 5:50pm	Seats (Total: 10) PHY 1410 PHY 3203	 Lab
0102	Wendell Hill, Andris Skuja M 2:00pm - 2:50pm W 3:00pm - 5:50pm	Seats (Total: 10) PHY 1410 PHY 3203	 Lab

0103	Andris Skuja, Wendell Hill M 2:00pm - 2:50pm Tu 3:00pm - 5:50pm	Seats (Total: 10) PHY 1410 PHY 3203	 Lab
0104	Andris Skuja, Wendell Hill M 2:00pm - 2:50pm Th 3:00pm - 5:50pm	Seats (Total: 10) PHY 1410 PHY 3203	 Lab

PHYS386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Contact department for information to register for this course.

PHYS389 **Undergraduate Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

Independent directed research and study on a topic selected by the student in consultation with his or her advisor. Final written thesis and oral defense will be expected.

Contact department for information to register for this course.

PHYS398 **Independent Studies Seminar**

(Perm req)

Credits: 1-16 Grading Method: Regular, Pass-Fail, Audit

Credit according to work done. Enrollment is limited to students admitted to the independent studies program in physics.

Contact department for information to register for this course.

PHYS399 **Special Problems in Physics**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Selected advanced experiments. (Will be given with sufficient demand.)

Contact department for information to register for this course.

PHYS399D **Special Problems in Physics; Physics STEM Seminar II**

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced experiments. (Will be given with sufficient demand.)

0101	Thomas Gleason, Donna Hammer F 9:00am - 9:50am Contact instructor or department for details.	Seats (Total: 8) PHY 1204

PHYS399E **Special Problems in Physics; Physics STEM Seminar III**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Selected advanced experiments. (Will be given with sufficient demand.)

0101	Thomas Gleason, Donna Hammer **Meets September 10, 2018 - December 10, 2018** Contact instructor or department for details.	Seats (Total: 12)

PHYS401 **Quantum Physics I**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS371 and PHYS373. Formerly: PHYS421.

Introduces some quantum phenomena leading to wave-particle duality. Schroedinger theory for bound states and scattering in one dimension. One-particle Schroedinger equation and the hydrogen atom.

0101	Christopher Lobb MWF 10:00am - 10:50am W 11:00am - 11:50am	Seats (Total: 49) PHY 1402 PHY 1402

PHYS402 **Quantum Physics II**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS401.

Quantum states as vectors; spin and spectroscopy, multiparticle systems the periodic table, perturbation theory, band structure, etc.

0101	Theodore Jacobson MW 10:00am - 10:50am MW 11:00am - 11:50am	Seats (Total: 51) PHY 1201 PHY 1201

PHYS404 **Introduction to Statistical Thermodynamics**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS371 or PHYS420.

Introduction to basic concepts in thermodynamics and statistical mechanics.

0101	James Williams	Seats (Total: 55)
	MWF 9:00am - 9:50am	ATL 2324

PHYS405 **Advanced Experiments**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS375. Restriction: Must be in a major within CMNS-Physics department.

Advanced laboratory techniques. Selected experiments from many fields o modern physics. Emphasis on self-study of the phenomena, data analysis, and presentation in report form.

0101	Abolhassan Jawahery	Seats (Total: 20)	
	W 12:00pm - 12:50pm	PHY 1402	Lab
	TBA	PHY 3112	Lab

PHYS407 **Undergraduate Experimental Research**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

General Education: DSSP

Prerequisite: PHYS499 and PHYS375; and permission of CMNS-Physics department. Restriction: Must be in a major within CMNS-Physics department; and senior standing.

Students develop and complete an independent, experimental research project with a professor in the Physics Department. The project should be a continuation of work done in PHYS499A. To obtain permission, students must submit a proposal describing the experimental work to be completed and this proposal must be approved by their faculty mentor, the associate chair for undergraduate education and the chair of the laboratory committee. Students must maintain a lab notebook, give an oral presentation and complete a written report on their research that includes data and error analysis.

0101	Kara Hoffman	Seats (Total: 10)
	Contact instructor or department for details.	

PHYS410 **Classical Mechanics**

Credits: 4

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS373.

Theoretical foundations of mechanics with extensive application of the methods. Various mathematical tools of theoretical physics.

0101	Adil Hassam	Seats (Total: 60)
	TuTh 9:00am - 10:50am	PHY 1201

PHYS411 **Intermediate Electricity and Magnetism**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS373.

Foundations of electromagnetic theory, with extensive applications of the methods. Thorough treatment of wave properties of solutions of Maxwell's equations.

0101	Phillip Sprangle	Seats (Total: 49)
	TuTh 11:00am - 12:50pm	PHY 1402

PHYS420 **Principles of Modern Physics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH246. And PHYS271 and PHYS270; or PHYS273. Credit only granted for: PHYS371 or PHYS420.

A survey of atomic and nuclear phenomena and the main trends in modern physics. Appropriate for students in engineering and other physical sciences.

0101	Vladimir Manucharyan	Seats (Total: 40)
	MW 3:30pm - 4:45pm	PHY 0405

PHYS431 **Properties of Matter**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS271, PHYS270, and MATH241; and (PHYS401 or PHYS420). Also offered as: ENMA460. Credit only granted for: ENMA460 or PHYS431.

Introduction to solid state physics. Electromagnetic, thermal, and elastic properties of metals, semiconductors, insulators and superconductors.

0101	Ichiro Takeuchi	Seats (Total: 15)
	MW 5:00pm - 6:15pm	CHE 2108

PHYS444 **Computing Beyond the Standard Model of Particle Physics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS371 and PHYS373; or permission of instructor.

An exploration of the computing languages and techniques used to analyze large data sets in Large Hadron Collider physics with some discussion of applications in unrelated fields.

0101	Shabnam Jabeen	Seats (Total: 20)
	TuTh 2:00pm - 3:15pm	PHY 3301

PHYS475 **Introduction to Relativity, Gravitation and Cosmology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS373 and PHYS410; or permission of instructor. Restriction: Permission of CMNS-Physics department. Additional information: Intended primarily for undergraduate physics majors.

Review of special relativity, followed by a study of the equivalence principle, curved spacetimes, and Einstein's equations. Selected applications to the solar system, stellar structure, black holes, gravitational waves, and cosmology.

0101	Bei Lok Hu	Seats (Total: 10)	
	MW 1:00pm - 2:15pm	PSC 3150	
	F 1:00pm - 1:50pm	PSC 3150	Discussion

PHYS485 **Electronic Circuits**

(Perm req)

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS405. Corequisite: PHYS374. Restriction: Must be in a major within CMNS-Physics department.

Theory and application to experimental physics of modern semiconductor analog and digital circuits. Emphasis on understanding passive and active elements in practical circuits. Topics span the range from simple transistor circuits to microcomputers.

Additional Note: Also offered as PHYS685. Credit only granted for PHYS485 or PHYS685.

0101	Daniel Lathrop MF 2:00pm - 2:50pm W 1:00pm - 4:50pm	Seats (Total: 24) CHE 2136 PHY 3321	 Lab
0102	Daniel Lathrop MF 2:00pm - 2:50pm Tu 1:00pm - 4:50pm	Seats (Total: 18) CHE 2136 PHY 3321	 Lab

PHYS499A **Special Problems in Physics**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

Research or special study. Credit according to work done.

Contact department for information to register for this course.

PHYS499B **Special Problems in Physics**

(Perm req)

Credits: 1-16 Grading Method: Regular, Pass-Fail, Audit

Research or special study. Credit according to work done.

Contact department for information to register for this course.

PHYS499V **Special Problems in Physics; Colloquium for Undergraduate Physics Majors**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Research or special study. Credit according to work done.

0101	Instructor: TBA Th 4:00pm - 6:15pm	Seats (Total: 60) PHY 1201

PHYS601 **Theoretical Dynamics**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: PHYS410; or students who have taken courses with comparable content may contact the department.

Lagrangian and Hamiltonian mechanics, two-body central force problem, rigid body motion, small oscillations, continuous systems.

0101	Kaustubh Agashe TuTh 12:30pm - 1:45pm	Seats (Total: 49) HBK 0115

PHYS604 **Methods of Mathematical Physics**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have completed coursework in advanced calculus; and (PHYS411 and PHYS410). Or students who have taken courses with comparable content may contact the department.

Ordinary and partial differential equations of physics, boundary value problems, Fourier series, Green's functions, complex variables and contour integration.

0101	Zohreh Davoudi TuTh 9:30am - 10:45am	Seats (Total: 50) ATL 1113

PHYS622 **Introduction to Quantum Mechanics I**

(Perm req)

Credits: 4 Grading Method: Regular, Audit

Prerequisite: Must have an outstanding undergraduate background in physics.

First and second semesters. A study of the Schroedinger equation, matrix formulations of quantum mechanics, approximation methods, scattering theory, etc. Applications to solid state, atomic, and nuclear physics.

0201	Victor Yakovenko MW 10:00am - 10:50am F 10:00am - 11:50am	Seats (Total: 67) ATL 1113 ATL 1113

PHYS624 **Advanced Quantum Mechanics**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: PHYS623.

Relativistic wave equations, second quantization in many body problems and relativistic wave equations, Feynman-Dyson perturbation theory, applications to many body problems, application to quantum electrodynamics, elements of renormalization.

0101	Anson Hook TuTh 9:30am - 10:45am	Seats (Total: 38) SPH 0302

PHYS662 **Intersections of Technology and Policy: Modernizing the Engergy System**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Graduate Status in one of the Natural Sciences, Engineering, Public Policy, Economics OR senior-level standing in one of the disciplines above with at least a 3.0 GPA.

A broad, practical introduction to the issues and assessment approaches used to evaluate technical innovation in the Energy System. Introduction to the use of Sankey Diagrams, Life Cycle Analysis, Techno-economic analysis, and Equilibrium Economic Analysis, as well as policy factors such as Energy Efficiency Standards, Vehicle Fuel Economy, Feed-in-tariffs and environmental regulations.

Also offered as PLCY699B. Credit only granted for PHYS662 or PLCY699B.

0101	Ellen Williams, Kavita Surana	Seats (Total: 9)	
	TuTh 9:30am - 10:45am	IPT 1116	

PHYS675 **Introduction to Relativity, Gravitation and Cosmology**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: PHYS606 and PHYS601.

Review of special relativity, followed by a study of the equivalence principle, curved spacetimes, and Einstein's equations. Selected applications to the solar system, stellar structure, black holes, gravitational waves, and cosmology.

0101	Bei Lok Hu	Seats (Total: 28)	
	MW 1:00pm - 2:15pm	PSC 3150	
	F 1:00pm - 1:50pm	PSC3 150	Discussion

PHYS685 **Research Electronics**

(Perm req)

Credits: 4 Grading Method: Regular

Prerequisite: PHYS374 or PHYS405; or students who have taken courses with comparable content may contact the department. Restriction: Must not have completed PHYS485. Credit only granted for: PHYS485 or PHYS685.

An integrated lecture and laboratory course in electronics with equal emphasis on experimental methods and results and analysis using device models and up-to-date mathematical and numerical tools. Experiments and analysis of circuits with passive and single active devices form the background for the study of operational amplifiers, digital integrated circuits and systems, and microcomputers. The general topics of impedance matching, frequency response, feedback, interfacing and the extraction of signal from noise are stressed.

Additional Note: Also offered as PHY485. Credit only granted for PHYS685 or PHYS485.

0101	Daniel Lathrop MF 2:00pm - 2:50pm W 1:00pm - 4:50pm	Seats (Total: 24) CHE 2136 PHY 3321	 Lab
0102	Daniel Lathrop MF 2:00pm - 2:50pm Tu 1:00pm - 4:50pm	Seats (Total: 18) CHE 2136 PHY 3321	 Lab

PHYS709 **Seminar in General Physics; Statistical Physics**

Credits: 1 Grading Method: Regular, Audit

Also offered as CHPH709B.

0101	John Weeks Tu 1:15pm - 2:30pm	Seats (Total: 30) IPT 1116

PHYS715 **Chaotic Dynamics**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: PHYS601.

Theory and applications of chaos in dynamical systems including such topics as strange attractors, Lyapanov exponents, quasiperiodicity, period doubling, intermittency, crises, fractal basin boundaries, chaotic scattering, KAM tori, and quantum chaos.

0101	Edward Ott TuTh 2:00pm - 3:15pm	Seats (Total: 30) PHY 1219

PHYS721 **Atomic and Optical Physics I (Survey)**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: PHYS623.

A survey of topics involving the physics of atoms and their interaction with radiation, including atoms in external fields, lasers, atomic spectroscopy and atomic structure.

0101	Gretchen Campbell, Trey Porto WF 2:30pm - 3:45pm	Seats (Total: 25) ATL 1109

PHYS728 **Seminar in Atomic and Molecular Physics**

Credits: 1 Grading Method: Regular, Audit

0101	Steven Rolston M 11:00am - 12:50pm	Seats (Total: 30) ATL 2400

PHYS732 **Introduction to Solid State Physics II**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: PHYS731.

Second semester of survey course in condensed matter physics including topics in semiconductors, surface physics, magnetism and superconductivity.

0101	Maissam Barkeshli MW 1:00pm - 2:15pm	Seats (Total: 25) CHE 2118

PHYS738 **Seminar in Experimental Solid State Physics; Quantum Mechanical Many-Body Problems**

Credits: 1 Grading Method: Regular, Audit

0101	Johnpierre Paglione Th 2:00pm - 3:50pm	Seats (Total: 15) PHY 1201

PHYS739 **Seminar in Theoretical Solid State Physics; Quantum Mechanical Many-Body Problems**

Credits: 1 Grading Method: Regular, Audit

0101	Sankar Das Sarma Tu 11:00am - 12:15pm	Seats (Total: 15) PHY 2205

PHYS748 **Seminar in Experimental Nuclear Physics**

Credits: 1 Grading Method: Regular, Audit

0101	Elizabeth Beise, Carter Hall W 2:30pm - 4:00pm	Seats (Total: 24) PHY 2202

PHYS749 **Seminar in Theoretical Nuclear Physics**

Credits: 1 Grading Method: Regular, Audit

0101	Xiangdong Ji W 4:00pm - 6:00pm	Seats (Total: 20) PHY 1219

PHYS758E **Seminar in Elementary Particles and Quantum Field Theory; Seminar in Elementary Particles and Quantum Field Theory**

Credits: 1 Grading Method: Regular, Audit

0101	Andris Skuja W 4:00pm - 5:50pm	Seats (Total: 25) PHY 1201

PHYS759 **Seminar in Elementary Particles and Quantum Field Theory**

Credits: 1 Grading Method: Regular, Audit

0101	Kaustubh Agashe M 3:00pm - 4:00pm	Seats (Total: 15) EGR 3111

PHYS769 **Seminar in Plasma Physics**

Credits: 1 Grading Method: Regular, Audit

Class will meet in ERF 1207.

0101	Adil Hassam W 4:00pm - 5:15pm	Seats (Total: 35) PHY 1402

PHYS778 **Seminar in Space and Cosmic Ray Physics**

Credits: 1 Grading Method: Regular, Audit

0101	Eun-Suk Seo M 4:30pm - 5:45pm	Seats (Total: 20) ATL 2400

PHYS798 **Special Problems in Advanced Physics**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Projects or special study in advanced physics.

Contact department for information to register for this course.

PHYS798B **Special Problems in Advanced Physics; Physics Colloquium**

Credits: 1 Grading Method: Regular, Audit

Projects or special study in advanced physics.

0101	Thomas Cohen Tu 3:30pm - 6:00pm	Seats (Total: 160) PHY 1412

PHYS798D **Special Problems in Advanced Physics; Applied Dynamics Seminar**

Credits: 1 Grading Method: Regular, Audit

Projects or special study in advanced physics.

0101	Daniel Lathrop, Edward Ott Th 12:30pm - 1:30pm	Seats (Total: 10) ERF 1207

PHYS798L **Special Problems in Advanced Physics; Biophysics**

Credits: 1 Grading Method: Regular, Audit

Projects or special study in advanced physics.

0101	Arpita Upadhyaya M 4:00pm - 5:30pm	Seats (Total: 10) IPT 1116

PHYS798T **Special Problems in Advanced Physics; Interdisciplinary Network Science Seminar**

Credits: 1 Grading Method: Regular, Audit

Projects or special study in advanced physics.

0101	Daniel Serrano, Michelle Girvan M 1:00pm - 1:50pm	Seats (Total: 25) PHY 1219

PHYS799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

PHYS838C **Special Topics in Experimental Solid State Physics; Superconductivity, Quantum Materials and Nanoscience Seminar**

Credits: 2 Grading Method: Regular, Audit

Credit according to work done.

0101	Johnpierre Paglione M 4:00pm - 5:50pm	Seats (Total: 50) PHY 1201

PHYS839A **Special Topics in Theoretical Solid State Physics; Theory of Low Dimensional Systems**

Credits: 1 Grading Method: Regular, Audit

Credit according to work done.

0101	Sankar Das Sarma F 4:00pm - 7:00pm	Seats (Total: 20) PHY 1201

PHYS898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

PHYS899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

PLCY Public Policy Fall 2018

PLCY100 **Foundations of Public Policy**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS

A survey course, focusing on public policy institutions and analytical issues as well as on overview of key public policy problems. Students will be introduced to public policy as a discipline, with a brief overview of the actors and institutions involved in the process, and familiarize themselves with the kinds of problems typically requiring public action. The course will examine these problems from a multijurisdictional and multisectoral perspective. Specific policy areas examined include education policy, health policy, economic and budgetary policy, criminal justice policy, environmental policy, and national and homeland security policy. The course should permit students to have broad foundational exposure to the field that will give them a solid base for more advanced courses.

0101	Philip Joyce, M Apolonia Calderon MW 2:00pm - 2:50pm F 10:00am - 10:50am	Seats (Total: 28) MMH 1400 EGR 2154	Discussion
0102	Philip Joyce, M Apolonia Calderon MW 2:00pm - 2:50pm F 10:00am - 10:50am	Seats (Total: 25) MMH 1400 EGR 3114	Discussion
0103	M Apolonia Calderon, Philip Joyce MW 2:00pm - 2:50pm F 11:00am - 11:50am	Seats (Total: 28) MMH 1400 EGR 1104	Discussion
0104	Philip Joyce, M Apolonia Calderon MW 2:00pm - 2:50pm F 11:00am - 11:50am	Seats (Total: 28) MMH 1400 MTH 1313	Discussion
0105	M Apolonia Calderon, Philip Joyce MW 2:00pm - 2:50pm F 12:00pm - 12:50pm	Seats (Total: 25) MMH 1400 EGR 1102	Discussion
0106	Philip Joyce, M Apolonia Calderon MW 2:00pm - 2:50pm F 12:00pm - 12:50pm	Seats (Total: 28) MMH 1400 EGR 2154	Discussion
0107	M Apolonia Calderon, Philip Joyce MW 2:00pm - 2:50pm F 1:00pm - 1:50pm	Seats (Total: 28) MMH 1400 EGR 2154	Discussion

PLCY201 Leadership for the Common Good

Credits: 3 | Grading Method: Regular | General Education: DSHS, DSSP, SCIS

Credit only granted for: PLCY201 or PUAF201. Formerly: PUAF201.

Aims to inspire, teach and engage students in the theory and practice of public leadership from the local to the national to the global level. Students will learn and apply diverse approaches to leadership in a multicultural society while developing an understanding of key frameworks and practices necessary to foster collective action across private, public, and nonprofit sectors. This course will allow students to become informed citizens able to reason critically and persuasively about public matters Students will also explore and assess their own personal values, beliefs, and purpose as they develop their leadership potential.

Restriction: Must be in the College Park Scholars Public Leadership program; and freshman standing.

0101	Susannah Washburn TuTh 2:00pm - 3:15pm	Seats (Total: 96) CCC 1205
FC01	Eric Luedtke TuTh 3:00pm - 4:15pm	Seats (Total: 45) TWS 1100
FC02	Eric Luedtke TuTh 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 45) TWS 1310

PLCY203 **Liberty and Justice for All: Ethics and Moral Issues in Public Policy**

Credits: 3 Grading Method: Regular

Provides each student with an opportunity to develop the ability to think in sophisticated ways about morally difficult policy issues.

0101	Jennifer Littlefield TuTh 12:30pm - 1:45pm	Seats (Total: 55) SKN 0104
0102	Thomas Hilde TuTh 3:30pm - 4:45pm	Seats (Total: 30) KEY 0116

PLCY213 **Foundations of Nonprofit Leadership and Social Innovation**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Through discussions of contemporary trends, challenges and issues, this course provides an introduction to the nonprofit and NGO sectors, social innovation, and the leadership and management skills required to achieve social impact. The course will explore the history, theories, and roles of philanthropy, the nonprofit sector, and social innovation in societies and cultures. Students will be able to demonstrate an understanding of the process and principles of social entrepreneurship and social innovation. Additionally, the course will introduce students to topics in leadership, social innovation, resource development, community mobilization through networks, the role of policy-making in creating change, project management, and overall strategies for achieving social impact. The course will include mini hands-on learning experiences that allow them to apply key learning outcomes.

0101	Claire Dunning	Seats (Total: 40)
	TuTh 9:30am - 10:45am	TLF 1126

PLCY214 **Leading and Investing in Social Change: Re-defining and Experimenting with Philanthropy**

Credits: 3 Grading Method: Regular General Education: DSSP, SCIS

Credit only granted for: PLCY214, PUAF214 or PUAF359I. Formerly: PUAF359I, PUAF214.

Defines philanthropy as an exploration of how one develops a vision of the public good and then deploys resources (including donations, volunteers, and voluntary associations) to achieve an impact.

Restricted to students in Carillon Communities.

0101	Patricia Bory	Seats (Total: 65)
	TuTh 2:00pm - 3:15pm	TWS 0320
	Restricted to students in the iGive Living Learning Program.	

PLCY300 **Governance: Collective Action in the Public Interest**

Credits: 3 Grading Method: Regular

Prerequisite: PLCY100. Restriction: Must be in a major in PLCY-School of Public Policy.

Examination of societal responses to public problems, including actions by government, non-profit and private sector actors, as well as civil society. Students will examine the roles of these various actors, as well as the nature of civic responsibility. The course will examine the various stages of the policy process, asking the following questions: How does something get defined as a problem that requires a public policy response? How do we think about what the options are for this response, and how do we choose among them? What are the factors that contribute to successful policy implementation? How do we evaluate the success of public policies? These questionswill be addressed using examples of current public policy problems, and students will be expected to engage in individual and collaborative work to design responses to those problems.

Prerequisite: PLCY100 and PLCY101.

0101	Alana Hackshaw	Seats (Total: 40)
	W 10:00am - 12:30pm	KEY 0126

PLCY301 **Sustainability**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Also offered as: AGNR301. Credit only granted for: AGNR301, PUAF301, or PLCY301. Formerly: PUAF301.

Designed for students whose academic majors would be enhanced by the complementary study of a widely shared but hard-to-operationalize aspiration: that present choices should preserve or improve future options rather than foreclose or degrade them. How should we understand sustainability? How might we achieve it? How would we know if we had achieved it? And how could sustainability activists of a rising generation lead by example?

0101	Daria Scala	Seats (Total: 165)
	TuTh 12:30pm - 1:45pm	LEF 2205

PLCY302 **Leadership: Philosophy, Policy and Praxis**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: PLCY302 or PUAF302. Formerly: PUAF302.

Understanding pluralism and how groups and individuals coexist in society is an essential part of the public policy process. This course will examine the ways in which the diverse experiences of race, gender, ethnicity, class, orientation, identity, and religion impact the understanding of and equitable delivery of public policy. The examination of how identity development shapes our understanding of society and influences the decision-making process is central to students' shaping policy that is truly for the people. This course will equip students with the skills needed to analyze pluralism and draw conclusions about the application of various theories to public policy issues.

Restriction: Must be in the Rawlings Undergraduate Leadership Fellows Program.

0101	Eric Luedtke	Seats (Total: 27)
	W 4:15pm - 6:45pm Contact instructor or department for details.	TLF 1126

PLCY304 **Evaluating Evidence: Finding Truth in Numbers**

Credits: 3 Grading Method: Regular

Prerequisite: STAT100. Restriction: Must be in a major in PLCY-School of Public Policy.

Enables students to understand the research done by others with a sufficiently skeptical eye to allow them to determine whether the findings of the research are valid given the assumptions made and methods used. This will involve, in part, thinking about the various problems in research design or conduct that could lead to faulty conclusions. It will also involve being able to differentiate between credible sources of information and those that are not objective. At the conclusion of the course, students should be able to differentiate objective evidence from political argumentation.

0101	Michael Busse TuTh 12:30pm - 1:45pm	Seats (Total: 30) SQH 1121
0102	Michael Busse TuTh 2:00pm - 3:15pm	Seats (Total: 30) SQH 2120

PLCY306 **Public Policy Analysis in Action**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must have earned a minimum of 60 credits; and must be in a major in PLCY-School of Public Policy.

Utilizes our unique location in the Washington, D.C. region to create a laboratory within which to analyze local, regional, national and international policy problems. Students will be put into teams and assigned to real and timely policy cases. The course will include meetings and field trips with local leaders in the field, ideally connected to the cases. Student will then expand and apply their use of policy analysis and evaluation skills to define those problems, analyze alternative responses, devise appropriate strategies for implementation, and evaluate the success of the proposed policy and implementation. The course will conclude with team presentations to local leaders and faculty. This distinctive course will serve to prepare students for their client- based senior capstone course.

0101	MIchael Bodaken TuTh 11:00am - 12:15pm	Seats (Total: 35) TLF 1126
	Examines the intersection and overlap of affordable housing, environment, racial justice and poverty policies.	

PLCY311 **Women in Leadership**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: PUAF311, PLCY311 or PUAF359W. Formerly: PUAF359W.

Examines the role of women in the leadership process including the participation of women as activists, voters, advocates, public leaders and as agents of change through various avenues including, among others, public service (elected and appointed), the media, community service, political organizations, and the nonprofit sector.

0101	Anne Kaiser	Seats (Total: 30)
	Tu 4:15pm - 6:45pm	TLF 1126

PLCY313 **Advocacy in the American Political System**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: PUAF313, PLCY313 or PUAF359C. Formerly: PUAF359C.

Introduces students to the creation of law through the legislative process with a special focus on the Maryland General Assembly.

0101	Gerard Evans	Seats (Total: 120)
	M 2:00pm - 4:35pm	ATL 2324

PLCY349 **Internship in Political Institutions: State and Local**

(Perm req)

Credits: 3-6 Grading Method: Regular

Offers students supervised internship placements in state and local political or public policy organizations.

Also offered as BSOS349.

0101	Jennifer Littlefield	Seats (Total: 25)
	Contact instructor or department for details.	

PLCY386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular

Prerequisite: Permission of PLCY-School of Public Policy. Repeatable to 12 credits if content differs. Credit only granted for: PLCY386 or PUAF386. Formerly: PUAF386.

0101	Nina Harris	Seats (Total: 10)
	Contact instructor or department for details.	

PLCY388 **Special Topics in Public Policy**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Advanced special topics focusing on an interdisciplinary topic related to Public Policy.

0101	Nina Harris Contact instructor or department for details.	Seats (Total: 10)
0102	Jennifer Littlefield Th 3:30pm - 4:45pm	Seats (Total: 20) KEY 0117

PLCY388A **Special Topics in Public Policy; Child and Family Policy Impact**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Advanced special topics focusing on an interdisciplinary topic related to Public Policy.

Also offered as FMSC498P. Credit only granted for PLCY388A or FMSC498P. For poor and low-income families, federal programs such as Medicaid, Child care, SNAP and child nutrition programs are a lifeline every day. Some programs also have policies that consider more than income eligibility, such as number of hours of work, disability, and immigration status. Budget choices have a significant impact on policy intentions. Students will learn about and analyze the major federal programs and federal budgets for these policy areas; understand from data the impact of such programs and policies; and be introduced to significant advocacy efforts and considerations that shaped hese policy decisions.

0101	Adele Robinson TuTh 9:30am - 10:45am	Seats (Total: 24) SQH 1105

PLCY388B **Special Topics in Public Policy; African-American Politics from Frederick Douglass to Barack Obama**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Advanced special topics focusing on an interdisciplinary topic related to Public Policy.

Also offered as AASP499P and GVPT368L. Credit only granted for AASP499P, GVPT368L, or PLCY388B.

0101	Jonathan England Tu 3:30pm - 6:00pm	Seats (Total: 35) LEF 1201

PLCY388D **Special Topics in Public Policy; Innovation and Social Change: Do Good Now**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP, SCIS

Advanced special topics focusing on an interdisciplinary topic related to Public Policy.

Introduces students to the concept of social innovation while exploring the many mechanisms for achieving social impact. It is team-based, highly interactive and dynamic, and provides an opportunity for students to generate solutions to a wide range of problems facing many communities today. Deepens the students understanding of entrepreneurship and innovation practices by guiding them through the creation and implementation process as applied to a project idea of their choice.

0101	Joannie Tremblay-Boire	Seats (Total: 35)
	TuTh 2:00pm - 3:15pm	TLF 1126

PLCY388G **Special Topics in Public Policy; Global Perspectives on Leading and Investing in Social Change**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP, SCIS

Advanced special topics focusing on an interdisciplinary topic related to Public Policy.

Today, philanthropic and nonprofit organizations play significant roles in shaping how public policy gets developed and implemented, as well as how change occurs in society. This course will define philanthropy as an exploration of how one develops a vision of the public good and then how a person or group can deploy resources to achieve a positive and lasting impact. During the semester, the class will go through the challenging and exciting process of ultimately granting approximately $7,500 to an organization that we believe can use these resources to achieve an impact on an issue of international significance. Our class grant deliberations and decisions will ultimately lead us to confront, question, and sharpen our philanthropic values, decisions, and leadership skills.

0101	Alexander Counts	Seats (Total: 40)
	Th 3:30pm - 6:00pm	TLF 1126

PLCY388L **Special Topics in Public Policy; Law and Policy of Cybersecurity**

Credits: 3 | Grading Method: Regular

Advanced special topics focusing on an interdisciplinary topic related to Public Policy.

Also offered as PLCY388L. Credit only granted for MLAW358E or PLCY388L.

0101	Michael Greenberger	Seats (Total: 30)
	W 4:00pm - 6:30pm	TYD 2108

PLCY388N **Special Topics in Public Policy; The United States and Israel: Likely or Unlikely Allies?**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Advanced special topics focusing on an interdisciplinary topic related to Public Policy.

Also offered as GVPT368B and ISRL329N. Credit only granted for ISRL329N, GVPT368B, or PLCY388N. This course examines the U.S. - Israel relationship through historical and thematic lenses. Stretching from the pre-state era through the post -Cold War alliance and the intensive U. S. role mediating Arab-Israeli peace, the course covers nearly a century of U. S. foreign policy. It will include domestic sources that have shaped U. S. policy, including public opinion, and conclude by examining scenarios for increased cooperation and managing tension in the relationship.

0101	Scott Lasensky	Seats (Total: 35)
	TuTh 9:30am - 10:45am	SQH 1119

PLCY388T **Special Topics in Public Policy; Undergraduate Teaching Assistant Directed Study**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Advanced special topics focusing on an interdisciplinary topic related to Public Policy.

0101	Nina Harris	Seats (Total: 10)
	Contact instructor or department for details.	

PLCY400 **Senior Capstone**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail

Prerequisite: PLCY306. Restriction: Permission of PLCY-School of Public Policy; and must have earned a minimum of 90 credits.

Public Policy students will take the skills and knowledge gained through their curriculum and apply them through their senior capstone course. Students will work in teams on problems and issues presented by outside clients, with guidance from faculty facilitators and interaction with the clients. Each team will work with the client to address a particular problem and produce a mutually agreed upon outcome. These hands on projects will advance students' understanding of the analytical, leadership, communication and problem solving skills necessary to address today's policy problems while allowing them to gain professional level experience that could contribute to their success in their post UMD endeavors. The course will conclude with an event that allows all teams to present their findings and outcomes to their client while being evaluated by faculty and public policy professionals.

0101	Juan Martinez Guzman	Seats (Total: 20)
	W 2:00pm - 4:30pm	SQH 1121

PLCY401 **Contemporary Issues in Public Policy**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Restriction: Must have earned a minimum of 90 credits.

An integrative course that allows policy students to explore the complexities of the policy-making process from the perspective of specific policy topics. They will learn about and discuss subject- based issues in a seminar format led by faculty and policy experts. Site visits to federal agencies, guest speakers, and round table sessions ensure that students receive a variety of real-world perspectives on their chosen policy area.

0101	Mathew Feehan TuTh 3:30pm - 4:45pm	Seats (Total: 30) JMZ 2206	
	Modern Warfare: Origins, Current Landscape, and Policy Debates.		

PLCY610 **Quantitative Aspects of Public Policy**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY610 or PUAF610. Formerly: PUAF610.

Introduces statistical methods needed for evaluating and choosing among policy options. Topics include probability; decision-making under uncertainty; the organization, interpretation, and visual display of complex data; prediction and inferences about causality; hypothesis testing; and linear and multiple regression. Develops analytical skills and the ability to apply theory to complex, real-world problems.

0201	Alec Worsnop W 4:15pm - 6:45pm M 4:15pm - 6:45pm	Seats (Total: 30) PKT 1221 VMH 1207	Discussion
0401	Alec Worsnop Th 9:15am - 11:45am M 9:15am - 11:45am	Seats (Total: 30) PKT 1221 VMH 1207	Discussion

PLCY611 **Quantitative Analysis of Policy Issues**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY611 or PUAF611. Formerly: PUAF611.

Study of a series of problems and the development of quantitative techniques to describe or evaluate the problem. The organization and interpretation of complex data and its use for prediction and inference about casual effects. The definition of objectives, trade-offs among objectives, and allocation of resources to meet objectives. Sensitivity of outcomes to changing conditions.

0101	Seth Weissman W 4:15pm - 6:45pm M 4:15pm - 6:45pm	Seats (Total: 20) VMH 1101 VMH 1107	 Discussion

PLCY620 **Political Analysis**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY620 or PUAF620. Formerly: PUAF620.

Examination of politics as a process for allocating scarce resources among claimants for public benefits. Comparision of the allocative model of politics with other distributive processes, such as markets. Comparison of the model with behavior of different political institutions, such as Congress and the presidency. Study of politics as a process with distinctive concepts of rationality. The translation of voter and interest group preferences into public choices. The impact of political decisions on competing constituencies.

Contact department for information to register for this course.

PLCY640 **Microeconomic and Policy Analysis**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY640 or PUAF640. Formerly: PUAF640.

Applies intermediate microeconomic theory to public policy issues: resource allocation by firms and consumers; the response of economic agents to changes in incentives; market allocations in competitive and non-competitive environments; and market failures and government remedies. Uses extended case studies of particular issues in such areas as the environment (acid rain), international trade (tariffs), industry regulation (cable TV), and the provision of public goods (highways).

0201	Yueming Qiu Th 1:30pm - 4:00pm Tu 1:30pm - 4:00pm	Seats (Total: 40) PKT 1221 PKT 1221	 Discussion
0401	Yueming Qiu M 7:00pm - 9:30pm F 4:15pm - 6:45pm	Seats (Total: 40) VMH 1203 VMH 1207	 Discussion

PLCY641 **Macroeconomics and Policy Analysis**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY641 or PUAF641. Formerly: PUAF641.

Studies the behavior of the economy as a whole: the level of national income, unemployment, and inflation; the vulnerability of the U.S. economy to external influences; possible federal influence over the level of economic activity; and the consequences for prices, employment and the U.S. trade deficit. Also examines possible U.S. policy responses to widespread debt crises in developing countries.

Contact department for information to register for this course.

PLCY650 **Moral Dimensions of Public Policy**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY650 or PUAF650. Formerly: PUAF650.

Explores the moral issues involved in public policy questions; the limits and usefulness of decision-making tools; problems of choosing, justifying and using criteria to judge a program's success and suitability; ethichal issues involving the welfare state and income distribution; and possible obligations beyond one's political community and generation.

Contact department for information to register for this course.

PLCY670 **Public Budgeting & Financial Management**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLYC670 or PUAF670. Formerly: PUAF670.

Covers how governments raise, spend, borrow, and manage public funds. Reviews federal,state, and local budget processes and introduces analytical techniques including basic spreadsheet skills, evaluating alternative revenue sources, revenue and expenditure forecasting, cost allocation, capital budgeting, cost-benefit analysis, discounting and present value, bond analysis, cash management and intergovernmental finance.

Prerequisites PUAF 610 and 640.

Contact department for information to register for this course.

PLCY671 **Public Sector Finance**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY671 or PUAF671. Formerly: PUAF671.

The goal of this course is to provide a useful overview of basic public sector financial management principles in a simulated managerial situation to midcareer students currently working in government and nonprofit organizations.

Contact department for information to register for this course.

PLCY688A **Topics in Public Policy; Comparative Political Institutions**

Credits: 3 Grading Method: Regular, Audit

Special topics in Public Policy.

Restriction: Must be in a major in PUAF-School of Public Policy; or permission of PUAF-School of Public Policy.

Contact department for information to register for this course.

PLCY688E **Topics in Public Policy; Governance: Normative & Political Dimensions**

Credits: 3 Grading Method: Regular, Audit

Special topics in Public Policy.

PUAF major or permission of instructor.

0101	Christopher Foreman Th 4:15pm - 6:45pm	Seats (Total: 20) VMH 1203
0201	Miguel Gonzalez-Marcos W 9:15am - 11:45am	Seats (Total: 20) VMH 1203
0301	Miguel Gonzalez-Marcos Th 9:15am - 11:45am	Seats (Total: 20) PKT 1224
0401	Miguel Gonzalez-Marcos Th 7:00pm - 9:30pm	Seats (Total: 21) VMH 1203

PLCY688F **Topics in Public Policy; State, Local, and NonProfit Financial Mgmt**

Credits: 3 Grading Method: Regular, Audit

Special topics in Public Policy.

Contact department for information to register for this course.

PLCY688G **Topics in Public Policy; Governance: Leadership, Management and Accountability**

Credits: 3 Grading Method: Regular, Audit

Special topics in Public Policy.

Restricted to PLCY majors or permission of instructor.

0101	Miguel Gonzalez-Marcos W 1:30pm - 4:00pm	Seats (Total: 20) VMH 1203

PLCY688I **Topics in Public Policy; Macroeconomic Analysis**

Credits: 2 Grading Method: Regular, Audit

Special topics in Public Policy.

Restricted to PLCY majors or permission of instructor.

0101	John Green **Meets August 27, 2018 - November 5, 2018** M 1:30pm - 4:00pm	Seats (Total: 30) VMH 1207
0201	Anthony Sanford **Meets August 27, 2018 - November 5, 2018** M 7:00pm - 9:30pm	Seats (Total: 30) VMH 1207

PLCY688M **Topics in Public Policy**

Credits: 3 Grading Method: Regular, Audit

Special topics in Public Policy.

Contact department for information to register for this course.

PLCY688R **Topics in Public Policy; Public Finance and Budgeting**

Credits: 2 Grading Method: Regular, Audit

Special topics in Public Policy.

Restricted to PLCY majors or permission of instructor.

0101	Thomas Spreen **Meets September 26, 2018 - December 5, 2018** Tu 1:30pm - 4:00pm	Seats (Total: 30) PKT 1224
0201	Thomas Spreen **Meets September 26, 2018 - December 5, 2018** W 7:00pm - 9:30pm	Seats (Total: 30) VMH 1207

PLCY688Y **Topics in Public Policy; Practicing Public Policy**

Credits: 3 Grading Method: Regular, Audit

Special topics in Public Policy.

Restricted to PUAF majors or instructor permission.

0101	Samuel McCann Tu 4:15pm - 6:45pm	Seats (Total: 30) Location: TBA
0201	Elizabeth Duke Tu 4:15pm - 6:45pm	Seats (Total: 30) Location: TBA
0301	Christopher Foreman Tu 4:15pm - 6:45pm	Seats (Total: 30) VMH 1207

PLCY689A **Public Policy Topics; Acquisitions: Concepts and Management**

Credits: 3 Grading Method: Regular, Audit

Special Topics in Public Policy.

Restricted to PLCY majors or permission of instructor.

0101	William Lucyshyn W 4:15pm - 6:45pm	Seats (Total: 20) VMH 2101F

PLCY689J **Public Policy Topics; Food Economics and Health**

Credits: 3 Grading Method: Regular, Audit

Special Topics in Public Policy.

Restriction:: Must be in a major in PUAF-School of Public Policy; or permission of PUAF-School of Public Policy.

0101	Alok Bhargava	Seats (Total: 20)
	W 1:30pm - 4:00pm	VMH 1101

PLCY689Q **Public Policy Topics; Quantitative Methods for Evidence-based Policies**

Credits: 3 Grading Method: Regular, Audit

Special Topics in Public Policy.

0101	Alok Bhargava	Seats (Total: 20)
	W 9:15am - 11:45am	VMH 1101

PLCY689Z **Public Policy Topics; Strategic Management for NonProfit and Public Organizations**

Credits: 3 Grading Method: Regular, Audit

Special Topics in Public Policy.

Restriction: Must be in a major in PUAF-School of Public Policy; or permission of PUAF-School of Public Policy.

0101	Robert Sheehan	Seats (Total: 30)
	W 7:00pm - 9:30pm	VMH 2505

PLCY692 **Leadership Principles and Practices**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY692 or PUAF692. Formerly: PUAF692.

This course will introduce leadership principles and practices to students by focussing on the theory of leadership, different leadership themes and skills, and discussions with practitioners.

Contact department for information to register for this course.

PLCY698A **Selected Topics in Public Affairs; Poverty Measurement and Alleviation**

Credits: 3

Grading Method: Regular, Audit

Special topics that arise in public policy.

For PUAF majors only or permission of department.

0101	Douglas Call, Douglas Besharov	Seats (Total: 30)
	Th 4:15pm - 6:45pm	VMH 1101

PLCY698C **Selected Topics in Public Affairs; Intelligence and Policy: Executive, Congressional and Public Dimensions**

Credits: 3

Grading Method: Regular, Audit

Special topics that arise in public policy.

Restriction: Must be in a major in PUAF-School of Public Policy.

0101	William Nolte	Seats (Total: 20)
	W 4:15pm - 6:45pm	PKT 1224

PLCY698G **Selected Topics in Public Affairs; Government Contracting and Pricing**

Credits: 3

Grading Method: Regular, Audit

Special topics that arise in public policy.

Restriction: Must be in a major in PUAF-School of Public Policy; or permission of PUAF-School of Public Policy.

Contact department for information to register for this course.

PLCY698L **Selected Topics in Public Affairs**

Credits: 3

Grading Method: Regular, Audit

Special topics that arise in public policy.

Contact department for information to register for this course.

PLCY698N **Selected Topics in Public Affairs; Intelligence and National Security**

Credits: 3

Grading Method: Regular, Audit

Special topics that arise in public policy.

For PUAF majors only or permission of department.

Contact department for information to register for this course.

PLCY698P **Selected Topics in Public Affairs; Information Policy and Technology**

Credits: 1-3 Grading Method: Regular, Audit

Special topics that arise in public policy.

Contact department for information to register for this course.

PLCY698T **Selected Topics in Public Affairs; Managing Across Sectors**

Credits: 3 Grading Method: Regular, Audit

Special topics that arise in public policy.

Restriction: Must be in a major in PUAF-School of Public Policy; or permission of PUAF-School of Public Policy.

0101	Elizabeth Duke	Seats (Total: 20)
	M 9:15am - 11:45am	VMH 1203

PLCY698V **Selected Topics in Public Affairs; Managing Social Services**

Credits: 3 Grading Method: Regular

Special topics that arise in public policy.

For PUAF majors only or permission of department.

Contact department for information to register for this course.

PLCY698X **Selected Topics in Public Affairs**

Credits: 3 Grading Method: Regular, Audit

Special topics that arise in public policy.

Contact department for information to register for this course.

PLCY698Z **Selected Topics in Public Affairs; Trends in Counter Terrorism**

Credits: 3 Grading Method: Regular, Audit

Special topics that arise in public policy.

Contact department for information to register for this course.

PLCY699A **Selected Topics Public Policy; Asset Management II**

Credits: 3 Grading Method: Regular, Audit

Special topics that arise in public policy.

Contact department for information to register for this course.

PLCY699B **Selected Topics Public Policy; Intersections of Technology and Policy: Modernizing the Energy System**

Credits: 3 Grading Method: Regular, Audit

Special topics that arise in public policy.

Also offered as PHYS662. Credit only granted for PHYS662 or PLCY699B.

0101	Kavita Surana, Ellen Williams	Seats (Total: 9)
	TuTh 9:30am - 10:45am	IPT 1116

PLCY699D **Selected Topics Public Policy; Examining Social Identity & Pluralism in Public Policy**

Credits: 3 Grading Method: Regular, Audit

Special topics that arise in public policy.

Understanding how groups and individuals develop and coexist in society is an essential part of public policy. Using the classroom as a laboratory, students will explore identity development and how the intersections of race, class, gender, sexual orientation, and other identities shape perceptions that inform decision-making and policy development. From historical scholars to current day movement leaders, this course equips students with tools necessary to critically analyze pluralism, power, and identity; and the skills needed to shape meaningful and equitable public policy and working and civic environments for all.

0101	Patricia Bory, Nina Harris	Seats (Total: 20)
	W 1:30pm - 4:00pm	TLF 1126

PLCY699F **Selected Topics Public Policy; Ethics of Public Administration**

Credits: 1-3 Grading Method: Regular, Audit

Special topics that arise in public policy.

Contact department for information to register for this course.

PLCY699G **Selected Topics Public Policy; Leadership in Groups and Organizations**

Credits: 3 Grading Method: Regular, Audit

Special topics that arise in public policy.

Contact department for information to register for this course.

PLCY699J **Selected Topics Public Policy; Pathways to Development**

Credits: 3 Grading Method: Regular, Audit

Special topics that arise in public policy.

Restriction: Must be in a major in PUAF-School of Public Policy; or permission of PUAF-School of Public Policy.

Contact department for information to register for this course.

PLCY699M **Selected Topics Public Policy; Acquisitions In National Security**

Credits: 3 Grading Method: Regular, Audit

Special topics that arise in public policy.

Contact department for information to register for this course.

PLCY699O **Selected Topics Public Policy; 21st Century Policy Challenges**

Credits: 3 Grading Method: Regular, Audit

Special topics that arise in public policy.

Contact department for information to register for this course.

PLCY699R **Selected Topics Public Policy; Critical Thinking and Analytic Methodology**

Credits: 3 Grading Method: Regular, Audit

Special topics that arise in public policy.

Contact department for information to register for this course.

PLCY699T **Selected Topics Public Policy; Terrorism Analysis: Tools and Practices**

Credits: 3 Grading Method: Regular, Audit

Special topics that arise in public policy.

Contact department for information to register for this course.

PLCY699W **Selected Topics Public Policy; Policy Engagement Project A**

Credits: 2 Grading Method: Regular, Audit

Special topics that arise in public policy.

Restricted to PLCY majors or permission of instructor.

0201	Douglas Call, Douglas Besharov Th 7:00pm - 9:30pm	Seats (Total: 20) VMH 1207
	Program evaluation and economic assessment (including cost, cost-effectiveness, and cost-benefit analysis) projects with any specialization.	
0211	Douglas Besharov, Douglas Call Th 7:00pm - 9:30pm	Seats (Total: 20) VMH 1207
	Program evaluation and economic assessment (including cost, cost-effectiveness, and cost-benefit analysis) projects with any specialization.	
0311	Anand Patwardhan Th 1:30pm - 4:00pm	Seats (Total: 20) VMH 2101F
	Environmental and Energy projects.	
0401	I M Mac Destler, Jonas Siegel Th 1:30pm - 4:00pm	Seats (Total: 20) PKT 1224
	International security and economic policy projects.	
0501	David Crocker Th 1:30pm - 4:00pm	Seats (Total: 20) VMH 2202A
	International development projects.	
0521	Angela Bies Th 1:30pm - 4:15pm	Seats (Total: 20) Location: TBA
	For approved students in India travel course.	

PLCY699X **Selected Topics Public Policy; Organizational Behavior**

Credits: 3 Grading Method: Regular, Audit

Special topics that arise in public policy.

Contact department for information to register for this course.

PLCY700 **U.S. Trade: Policy and Politics**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: PUAF641, PUAF620, and PUAF640. Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY700 or PUAF700. Formerly: PUAF700.

Interplay between government and private interests in shaping official actions that affect international trade. Policy tools available to influence balance, magnitude, and composition of imports and exports. Evolution of executive, congressional and quasi-judicial government institutions under increased U.S. international trade exposure and trade deficit.

0101	Susan Schwab	Seats (Total: 22)
	Th 9:15am - 11:45am	VMH 1101

PLCY711 **Public Management and Leadership**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY711 or PUAF711. Formerly: PUAF711.

Reviews the managerial, political, and ethical problems faced by public sector managers and leaders, including setting an organization's goals, obtaining and protecting a program mandate, designing a service delivery system and implementing a new program.

Contact department for information to register for this course.

PLCY712 **Analysis of Fiscal Conditions**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY712 or PUAF712. Formerly: PUAF712.

The financial operations of U.S. government at various levels, with emphasis on local governments. Practical problems in revenue management, including revenue forecasting and cash flow analysis; debt management operations, such as borrowing; intergovernmental financial operations, such as grants management and reporting requirements, and personnel management issues that have a direct bearing on governmental finances.

Contact department for information to register for this course.

PLCY715 **Government and Non-Profit Accounting**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY715 or PUAF715. Formerly: PUAF715.

Basic accounting practices of governmental and non-profit organizations. Emphasis on presentation of data in assessing an organization's financial health, financial data by organizations, structuring of accounting information to achieve management control, way in which evolving national standards influence kinds of information organizations have to apply in the future.

Contact department for information to register for this course.

PLCY716 **State and Local Government Budgeting**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY716 or PUAF716. Formerly: PUAF716.

State and local government practices as a laboratory for studying public sector financial management.

Contact department for information to register for this course.

PLCY717 **Federal Budgeting: Policy and Process**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY717 or PUAF717. Formerly: PUAF717.

Budgeting as a political and administrative instrument of government. Development of budgeting, the multiple uses of the budget, including role in fiscal policy and resource allocation, the roles and relationships of major participants, and effects of resource scarcity on budgeting behavior. Emphasis on the federal level.

Contact department for information to register for this course.

PLCY720 **International Security Policy**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY720 or PUAF720. Formerly: PUAF720.

Reviews the principal features of international security as currently practiced. Traces the evolution of contemporary policy beginning with the initiation of nuclear weapons programs during World War II. Particular emphasis is given to experience of the United States and Russia, since the historical interaction between these two countries has disproportionately affected the international security conditions that all other countries now experience.

0101	Sara Kutchesfahani	Seats (Total: 20)
	W 9:15am - 11:45am	VMH 1107

PLCY722 **Terrorism and Democracy**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY722 or PUAF722. Formerly: PUAF722.

United States government's decision process for dealing with crises; the options available to a president for deterring and handling incidents of terrorism, and how a president can and should select between the options.

Contact department for information to register for this course.

PLCY724 **Problems of Global Security**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY724 or PUAF724. Formerly: PUAF698W and PUAF724.

Explores the international security implications of globalization, presenting evidence indicating that altered circumstances will eventually induce a major redesign of prevailing security arrangements. Includes three segments: 1) a review of the principal problems that have been the focus of established security policy and would be the context for any major adjustment of policy; 2) an assessment of relationships with the major countries where traditional problems are most acutely present; and 3) a review of the organizing principles that can be expected to emerge in the new situation.

Contact department for information to register for this course.

PLCY734 **Foundations of Social Policy**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PLCY-School of Public Policy. Credit only granted for: PLCY734 or PUAF734. Formerly: PUAF734.

Provides an overview of government's role in social policy and the history of the development of federal and state policies with respect to welfare, aging, education, and housing. Analyzes current federal institutions and legislation in the same policy areas and the demographic history of the United States. Develops skills in analytic writing and presentation of descriptive data.

Contact department for information to register for this course.

PLCY735 **Health Policy**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: PLCY735 or PUAF735. Formerly: PUAF735.

Analyzes the origins, history, status, and future of health care as problems in political and economic theory and as puzzles in policy formation. Considers current American reform controversies in the light of several disciplines and in comparison to foreign experiences and structures.

0101	Robert Sprinkle	Seats (Total: 20)
	Tu 9:15am - 11:45am	VMH 1101

PLCY741 **Global Environmental Problems**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY741 or PUAF741. Formerly: PUAF741.

Suitability of analytic tools for examining global environmental problems, human overpopulation, land abuse, ozone depletion, climate change, acid rain, loss of biological diversity, the scarcity of food, fresh water, energy and nonfuel mineral resources, and health hazards of pollutants toxic metals and radiation.

0101	Irving Mintzer	Seats (Total: 40)
	Th 4:15pm - 6:45pm	VMH 2101F

PLCY744 **Environment and Development**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: PLCY744 or PUAF744. Formerly: PUAF744.

Analyzes sustainable development and its conflicting interpretations. The dominant view, as expressed in the World Bank's 1992 World Development Report, is studied, along with some critical responses. Further readings on issues of population, consumption and development indicators.

0101	Thomas Hilde	Seats (Total: 20)
	W 7:00pm - 9:30pm	VMH 2101F

PLCY752 **Managing Differences:Resolving Conflict and Negotiating Agreements**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY752 or PUAF752. Formerly: PUAF752.

Enhances the student's negotiation and leadership skills for managing differences between individuals and groups. Students study the nature of conflict, learn how to handle two and multiparty conflicts, exerting leadership where there are no hierarchy leaders, and explore the impact of facilitators and mediators on the negotiating process. Blends skill building exercises and theory discussions about the behavior of groups and individuals in groups to understand negotiation dynamics.

0101	Charles Field	Seats (Total: 20)
	M 4:15pm - 6:50pm	VMH 1101

PLCY753 **Advanced Negotiations**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: PUAF752. Credit only granted for: PUAF698C, PUAF753 or PLCY753. Formerly: PUAF698C and PUAF753.

Deepens the student's negotiation and leadership skills for managing differences between individuals and groups. Cover conflict, escalation, dealing with intractable conflicts, sustaining agreements in inter-group conflicts, and the effects of trauma on negotiations.

Contact department for information to register for this course.

PLCY770 **Seminar in Housing and Community Development Strategies**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PLCY-School of Public Policy. Credit only granted for: PLCY770 or PUAF770. Formerly: PUAF770.

Detailed examination of community and social policy issues relating to the construction and management of affordable housing.

Contact department for information to register for this course.

PLCY771 **Housing and Community Development Overview**

Credits: 3

Grading Method: Regular, Audit

Restriction: Must be enrolled in the executive training program sponsored by the Department of Housing and Urban Development. Credit only granted for: PLCY771 or PUAF771. Formerly: PUAF771.

An overview of the housing development process. Community development context, financial analysis, analytical tools including microcomputer applications, architectural and design issues, engineering constraints.

Contact department for information to register for this course.

PLCY772 **Housing Finance**

Credits: 3

Grading Method: Regular, Audit

Restriction: Must be enrolled in the executive training program sponsored by the Department of Housing and Urban Development. Credit only granted for: PLCY772 or PUAF772. Formerly: PUAF772.

Fundamentals of housing investment analysis. Structuring feasibility analyses, appraisals, pro forma statements, return on investment, leverage analysis, underwriting ratios, taxation and syndication.

Contact department for information to register for this course.

PLCY773 **Housing Clinic**

Credits: 3

Grading Method: Regular, Audit

Restriction: Must be enrolled in the executive training program sponsored by the Department of Housing and Urban Development. Credit only granted for: PLCY773 or PUAF773. Formerly: PUAF773.

Issues and strategies applicable to urban, suburban, and rural areas. Field experience and a team exercise, using the case study method, will give an opportunity for concrete application of the concepts to a specific set of community problems.

Contact department for information to register for this course.

PLCY774 **Asset Management**

Credits: 3

Grading Method: Regular, Audit

Restriction: Must be enrolled in the executive training program sponsored by the Department of Housing and Urban Development. Credit only granted for: PLCY774 or PUAF774. Formerly: PUAF774.

Asset manager's role at each stage of the property's life cycle and property analysis, including cash flow debt and staffing. Topics include capital needs; major building systems, costs and useful lives; marketing and outreach; and anti-crime strategies. Field trips to problem properties to perform cost/benefit analysis, diagnose potential cures, and prepare action plans.

Contact department for information to register for this course.

PLCY780 **The American Foreign Policy-Making Process**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY780 or PUAF780. Formerly: PUAF780.

Survey and analysis of the governmental institutions and processes which shape U.S. global engagement on national security and international economic issues. Particular emphasis is given to executive-congressional relations and the broader domestic roots of foreign policy.

0101	I M Mac Destler	Seats (Total: 20)	
	M 1:30pm - 4:00pm	VMH 1107	

PLCY781 **International Economic Policy**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY781 or PUAF781. Formerly: PUAF781.

Issues and choices facing the United States in today's global economy. Primary, but not exclusive, emphasis is given to "competitive interdependence" among advanced industrial societies.

0101	Phillip Swagel	Seats (Total: 35)	
	Th 4:15pm - 6:45pm	VMH 1207	
	M 4:15pm - 6:45pm	VMH 1203	Discussion

PLCY783 **Development and Foreign Aid**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY783 or PUAF783. Formerly: PUAF698Q and PUAF783.

Examines the empirical, conceptual, and ethical dimensions of international development policies and U.S. foreign aid. What is the present character of development in poor countries/regions? How should development be conceived? What development strategies are best? What is and should be the purpose of U.S. foreign aide and development assistance?

0101	Chloe Schwenke	Seats (Total: 20)
	Tu 7:00pm - 9:30pm	VMH 1107

PLCY790 **Project Course**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY790 or PUAF790. Formerly: PUAF790.

Students work at a sponsoring government agency or private firm researching problem of interest to sponsor and relevant to concentration. Emphasis on problem definition, organizing information, and both oral and written presentation of results.

Contact department for information to register for this course.

PLCY798A **Readings in Public Policy**

Credits: 1-3 Grading Method: Regular, Audit

Guided readings for discussions on public policy.

Contact department for information to register for this course.

PLCY798B **Readings in Public Policy**

Credits: 1-3 Grading Method: Regular, Audit

Guided readings for discussions on public policy.

Contact department for information to register for this course.

PLCY798F **Readings in Public Policy; Moral Foundations of Intelligence**

Credits: 3 Grading Method: Regular, Audit

Guided readings for discussions on public policy.

For PUAF majors only or permission of department.

Contact department for information to register for this course.

PLCY798M **Readings in Public Policy; Arms Control and Non-Proliferation Policy**

Credits: 3 Grading Method: Regular, Audit

Guided readings for discussions on public policy.

Restricted to PLCY majors or permission of instructor

0101	Nancy Gallagher Tu 1:00pm - 3:30pm	Seats (Total: 20) VMH 2101F

PLCY798N **Readings in Public Policy; Energy Economics**

Credits: 3 Grading Method: Regular, Audit

Guided readings for discussions on public policy.

Restriction: Must be in a major in PUAF-School of Public Policy; or permission of PUAF-School of Public Policy.

0101	Benjamin Schlesinger M 9:15am - 11:45am	Seats (Total: 20) VMH 1107

PLCY798Y **Readings in Public Policy; Nonprofit Management and Leadership**

Credits: 3 Grading Method: Regular, Audit

Guided readings for discussions on public policy.

Restriction: PUAF major or permission of instructor.

0101	Joannie Tremblay-Boire Th 4:15pm - 6:45pm	Seats (Total: 20) VMH 1107

PLCY798Z **Readings in Public Policy; Qualitative Research Methods and Public Policy**

Credits: 3 Grading Method: Regular, Audit

Guided readings for discussions on public policy.

Restriction: Must be a major in PUAF-School of Public Policy; or permission of PUAF-School of Public Policy.

0101	Peter Reuter	Seats (Total: 20)
	M 1:30pm - 4:00pm	VMH 1101

PLCY898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

PLCY899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

PLSC Plant Sciences Fall 2018

PLSC101 **Introductory Crop Science**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit CORE: LL General Education: DSNL

Major crop plants including: anatomy, physiology, morphology, history, use, adaptation, culture, improvement and economic importance.

Students must pay a $50.00 laboratory materials fee.

0101	William Phillips	Seats (Total: 24)	
	MWF 10:00am - 10:50am	PLS 1140	
	M 11:00am - 12:50pm	PLS 1153	Lab
0102	William Phillips	Seats (Total: 24)	
	MWF 10:00am - 10:50am	PLS 1140	
	W 11:00am - 12:50pm	PLS 1153	Lab
0103	William Phillips	Seats (Total: 24)	
	MWF 10:00am - 10:50am	PLS 1140	
	W 1:00pm - 2:50pm	PLS 1153	Lab
0104	William Phillips	Seats (Total: 24)	
	MWF 10:00am - 10:50am	PLS 1140	
	M 1:00pm - 2:50pm	PLS 1153	Lab

PLSC115 **How Safe is Your Salad? The Microbiological Safety of Fresh produce**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: LS	General Education: DSNS, SCIS

Recommended: PLSC100, PLSC101, or BSCI105; or (BSCI170 and BSCI171).

As food is produced in larger quantities and made to travel longer distances, keeping our food safe in this day and age is an ever growing challenge. This course will focus on the question of what it takes to grow and maintain safe fruits and vegetables, as food travels along the path from the farm to your fork. Food safety of fresh produce will be discussed from the public health, agricultural, economical and policy perspectives.

0101	Shirley Micallef Tu 11:00am - 12:15pm Th 11:00am - 12:15pm	Seats (Total: 30) PLS 1130 PLS 1119	 Discussion
0102	Shirley Micallef Tu 11:00am - 12:15pm Th 12:30pm - 1:45pm	Seats (Total: 30) PLS 1130 PLS 1119	 Discussion

PLSC120 **Mushrooms and Molds**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	General Education: DSNS

Students will learn about how essential fungi (mushroom, molds, and alikes) are in this world and how they affect our daily lives. They will learn how fungi interact with animals, plants and other organisms in positive and negative ways. Also, they will study the importance of fungi in biotechnology and food and how they have shaped many societies throughout history.

0101	Burkhard Schulz TuTh 9:30am - 10:45am	Seats (Total: 25) PLS 1146
	The course will have a blended instruction format with online and in-class lectures, and one or two field outings and laboratories."	

PLSC125 **Feeding Nine Billion by 2050: Food Security and Crop Protection**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	General Education: DSNS, SCIS

A big question in global food security is "how can we feed 9 billion people in 2050?" This course will stimulate creative thinking about possible solutions particularly from the crop production perspective. The instructor will introduce the concept of food security and different dimensions of this complex issue, identify major constraints to food security, and discuss scientific approaches that may be used to meet the grand challenge. Emphasis will be placed on topical and controversial issues such as the impact of biofuel production and GM crops on food security, and novel strategies that can enhance crop protection for improving food security.

0101	Burkhard Schulz, Shunyuan Xiao Tu 9:30am - 10:45am Th 9:30am - 10:45am	Seats (Total: 35) MMH 1400 PLS 1119	Discussion
0102	Burkhard Schulz, Shunyuan Xiao Tu 9:30am - 10:45am Th 9:30am - 10:45am	Seats (Total: 35) MMH 1400 PLS 1113	Discussion
0103	Shunyuan Xiao, Burkhard Schulz Tu 9:30am - 10:45am Th 9:30am - 10:45am	Seats (Total: 35) MMH 1400 PLS 1117	Discussion

PLSC201 **Plant Structure and Function**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PLSC100; or PLSC101. And CHEM103; or CHEM131. And CHEM132.

The relationship between plant structure and function and how the environment influences changes in the physiology to control higher plant growth and development are studied.

0101	Jianhua Zhu MWF 10:00am - 10:50am M 3:30pm - 6:15pm	Seats (Total: 16) PLS 1119 PLS 1153	Lab
0102	Jianhua Zhu MWF 10:00am - 10:50am W 3:30pm - 6:15pm	Seats (Total: 16) PLS 1119 PLS 1153	Lab

PLSC203 **Plants, Genes and Biotechnology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: LS General Education: DSNS

Prerequisite: BSCI103 or BSCI105; or (BSCI170 and BSCI171).

An overview of the history, genetics, and reproductive mechanisms for agronomic and horticultural plants that examines mechanisms of genetic improvement ranging from traditional plant breeding to tissue culture and genetic engineering. Social and political issues such as germplasm preservation and international intellectual property rights will also be discussed.

0101	Gary Coleman TuTh 2:00pm - 3:15pm	Seats (Total: 23) PLS 1162	

PLSC205 **Introduction to Turf Science and Management**

Credits: 4 Grading Method: Regular General Education: DSNL

Credit only granted for: PLSC205 or PLSC305. Formerly: PLSC305.

Principals of turf science and culture with emphasis on turfgrass anatomy, morphology, and physiology. The role of cultural interventions in achieving specific aesthetic and functional objectives is examined for multiple turf uses. Pest problems typically encountered in turfgrass management are also covered.

0101	Geoffrey Rinehart, Mark Carroll MWF 1:00pm - 1:50pm Tu 2:00pm - 3:50pm	Seats (Total: 20) PLS 1119 PBR 1102	 Lab
0102	Geoffrey Rinehart, Mark Carroll MWF 1:00pm - 1:50pm W 3:00pm - 4:50pm	Seats (Total: 20) PLS 1119 PBR 1102	 Lab

PLSC251 **Financial Applications for the Green Industry**

Credits: 3 Grading Method: Regular General Education: DSSP

Credit only granted for: PLSC361 or PLSC251. Formerly: PLSC361.

An introduction to the application of financial principles in the Green Industry business sector. Accounting, pricing, and estimating, job cost management and production efficiency are discussed and manifested in Scholarship In Practice exercises, case studies and a business plan project.

0101	Steven Cohan, Dora Cortez Class time/details on ELMs	Seats (Total: 30) ONLINE	

PLSC253 **Woody Plants for Mid-Atlantic Landscapes I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PLSC100.

A field and laboratory study of trees, shrubs, and vines used in ornamental plantings. Major emphasis is placed on native deciduous plant materials.

0101	Lea Johnson WF 1:00pm - 1:50pm F 2:00pm - 4:50pm	Seats (Total: 24) PLS 1140 PLS 1153	 Lab

0102	Lea Johnson WF 1:00pm - 1:50pm F 2:00pm - 4:50pm	Seats (Total: 24) PLS 1140 PLS 1140	 Lab
0103	Lea Johnson WF 1:00pm - 1:50pm F 2:00pm - 4:50pm	Seats (Total: 24) PLS 1140 PLS 1140	 Lab

PLSC389 **Internship**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit will be given for practical work carried out at one or more horticultural, agronomic, landscape industries, botanical gardens, or arboreta under formally arranged internships.

0101	Mark Carroll W 9:00am - 9:50am Contact instructor or department for details.	Seats (Total: 20) PLS 1119

PLSC399 **Special Problems in Plant Science**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Research projects in Plant Science including field, greenhouse, laboratory, studio and/or library studies. Research is conducted under the direction of a faculty member.

Contact department for information to register for this course.

PLSC404 **Plant and fungal Metabolism**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI170 and BSCI171; or PLSC201. And CHEM231 and CHEM232; or CHEM237; or permission of AGNR-Plant Science & Landscape Architecture department.

An introduction to biochemistry and metabolism in plants and fungi, covering the biosynthesis of compartments in plant and fungal cells with biological molecules such as nucleic acids, amino acids and lipids. Energy flow processes such as photosynthesis, carbohydrate metabolism and respiration, are covered in the course. The integration of different pathways in plant development and responses to environmental stresses will be discussed.

0101	Yiping Qi TuTh 11:00am - 12:15pm	Seats (Total: 20) PLS 1168

PLSC405 **Agroecology**

Credits: 3 Grading Method: Regular

Prerequisite: At least one course in ecology; or permission of instructor. Recommended: BSCI361 or PLSC471; or any BSCI or ENST ecology course. Credit only granted for: PLSC405 or PLSC605. Additional information: Class will be held on campus, with two day-long field trips to local farms.

How can we balance the multiple, and often competing objectives of sustainable agricultural intensification to promote both agricultural productivity and human wellbeing? The answer to this question requires a transdisciplinary, agroecological perspective. Agroecology is the integrative study of the ecology of the entire food system, encompassing ecological, economic and social dimensions. This course is designed to introduce various topics in agroecology (e.g. organic agriculture, biodiversity, the Farm Bill). We will take an ecosystems approach to the study of agriculture that will enable students to analyze the environmental, social, and economic interconnections within various types of agricultural systems locally and globally.

0101	Burkhard Schulz TuTh 12:30pm - 1:45pm	Seats (Total: 20) PLS 1146	

PLSC420 **Principles of Plant Pathology**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHEM131, CHEM132, and PLSC201; or students who have taken courses with comparable content may contact the department.

An introduction to the causal agents, nature and management of plant diseases with particular attention paid to economically important diseases of horticultural and agronomic crops.

0101	Nidhi Rawat TuTh 1:00pm - 2:15pm Tu 2:30pm - 5:15pm	Seats (Total: 18) PLS 1111 PLS 1153	 Lab
0102	Nidhi Rawat TuTh 1:00pm - 2:15pm Th 2:30pm - 5:15pm	Seats (Total: 18) PLS 1111 PLS 1153	 Lab

PLSC433 **Technology of Fruit and Vegetable Production**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PLSC201, NRSC411, PLSC271, and PLSC202; or students who have taken courses with comparable content may contact the department. Corequisite: BSCI442. Recommended: ENST200. Restriction: Junior standing or higher. Credit only granted for: NRSC411 or PLSC433.

A critical analysis of research work and application of the principles of plant physiology, chemistry and botany to practical problems in the commercial production of fruit and vegetable crops.

0101	Carol Allen, Christopher Walsh	Seats (Total: 10)	
	MW 11:00am - 12:15pm	PLS 1119	
	W 1:00pm - 4:50pm	PLS 0123	Lab

PLSC453 Weed Science

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Weed identification, ecology, and control (cultural, mechanical, biological, and chemical methods).

0101	William Phillips	Seats (Total: 24)	
	TuTh 9:30am - 10:45am	PLS 1115	
	Tu 11:00am - 12:50pm	PLS 1153	Lab

PLSC480 Urban Ecology

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PLSC471, ENST360, or BSCI363; or other coursework/experience considered for instructor permission. Additional information: Class will be held both on campus and at other locations such as the U.S. Botanic Garden, local parks, and urban and suburban locations off campus.

Cities are rapidly increasing in number and size across the globe, transforming local ecosystems. This course examines urban environments as coupled social-ecological systems at multiple scales, from streets and parks to urban landscapes patterns and global patterns of biodiversity. Ecological principles are applied in the urban context, including habitats, biodiversity, ecological processes, and ecosystem services of urban environments, with applications to problems in urban land management, decision-making and design.

0101	Lea Johnson	Seats (Total: 20)	
	WF 10:00am - 10:50am	PLS 1158	
	Contact instructor or department for details.		

PLSC489V Special Topics in Plant Science

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

A lecture and or laboratory series organized to study a selected phase of Plant Science not covered by existing courses. Credit according to time scheduled and organization of the course.

0101	Christopher Walsh, Carol Allen	Seats (Total: 1)
	MW 11:00am - 12:15pm	PLS 1119

PLSC601 **Plant Genomics**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: AGRO601, NRSC601, or PLSC601. Formerly: NRSC601.

An advanced course in plant genomics which is the study of genes of plant chromosomes. It will cover current topics in gene mapping, molecular markers, QTLs, gene sequencing, and genetic engineering with special focus on agriculturally important traits.

0101	Jianhua Zhu	Seats (Total: 20)
	TuTh 9:30am - 10:45am	PLS 1125

PLSC608 **Research Methods**

Credits: 2 Grading Method: Regular, Audit

An overview of research methods and applications related to plant sciences. Topics covered include current research advances, professional conduct and ethics, and preparation of grant proposals, manuscripts, and scientific presentations.

Prerequisite: permission of department. Repeatable to 6 credits if content differs. Credit will be granted for only one of the following: AGRO608, NRSC608, or PLSC608. Formerly NRSC608.

0101	Angus Murphy	Seats (Total: 20)
	M 3:30pm - 5:30pm	PLS 2107

PLSC608T **Research Methods; Supervised Teaching**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

An overview of research methods and applications related to plant sciences. Topics covered include current research advances, professional conduct and ethics, and preparation of grant proposals, manuscripts, and scientific presentations.

Prerequisite: permission of department.

0103	Angus Murphy Contact instructor or department for details.	Seats (Total: 5)	
0104	Mark Carroll Contact instructor or department for details.	Seats (Total: 5)	
6201	Jianhua Zhu Contact instructor or department for details.	Seats (Total: 5)	

PLSC619 **Seminars in Plant Science and Landscape Architecture**

Credits: 1 Grading Method: Regular, Audit

Enhancement of student learning and enrichment of student curriculum for the Plant Science Graduate Program through a combination of research seminar attendance and post-seminar discussion. Research seminars will be given by prominent scientists in the field of plant sciences and post-seminar discussions will be facilitated by the instructor along with student discussion leaders.

0101	Vijay Tiwari Th 4:00pm - 5:50pm F 10:00am - 10:50am	Seats (Total: 15) PLS 1140 PLS 1172	 Discussion

PLSC799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

PLSC898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

PLSC899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

PORT Portuguese Fall 2018

PORT104 **Intensive Elementary Portuguese**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have appropriate Foreign Language Placement Test (FLPT) score.

Covers speaking, reading, writing, listening, and culture of Portuguese-speaking world.

0101	Regina Igel TuTh 11:00am - 12:15pm W 11:00am - 11:50am	Seats (Total: 25) JMZ 1122 KEY 0120

PORT205 **Intermediate Reading and Conversation in Portuguese I**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO

Prerequisite: PORT204; or permission of ARHU-School of Languages, Literatures, and Cultures department.

Development of spoken Portuguese at intermediate level based on written assignments and exams on readings in a variety of genres.

0101	Regina Igel TuTh 2:00pm - 3:15pm	Seats (Total: 20) JMZ 1122

PORT224 **Brazilian Culture**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO, D

Pluralistic formation of Brazilian culture, based on European, African and Indian contributions. Lectures, discussions, slides, video, and film presentations. Taught in English.

0101	Regina Igel TuTh 12:30pm - 1:45pm	Seats (Total: 30) JMZ 1122

PORT386 **Experiential Learning**

(Perm req)

Credits: 3-6 | Grading Method: Regular, Pass-Fail

Restriction: Permission of ARHU-School of Languages, Literatures, and Cultures department; and junior standing or higher.

Contact department for information to register for this course.

PORT399 **Independent Study in Portuguese**

(Perm req)

Credits: 1-3 | Grading Method: Regular, Pass-Fail, Audit

Specific readings in literature under the supervision of a faculty member of the department.

Contact department for information to register for this course.

PSYC Psychology Fall 2018

The following courses may involve the use of animals. Students who are concerned about the use of animals in teaching have the responsibility to contact the instructor, prior to course enrollment, to determine whether animals are to be used in the course, whether class exercises involving animals are optional or required and what alternatives, if any, are available. The Department of Psychology enforces course prerequisites. Students who do not meet the course prerequisites will be administratively dropped from the course.

PSYC100 Introduction to Psychology

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: SB	General Education: DSHS, DSNS

A basic introductory course, intended to bring the student into contact with the major problems confronting psychology and the more important attempts at their solution.

Discussion sections do not meet until after first lecture. Research requirement: may involve participation in research.

Click here for more course information.

0101	Ryan Curtis W 4:00pm - 5:20pm F 8:00am - 8:50am Class time/details on ELMs	Seats (Total: 30) BRB 1101 BPS 1238 ONLINE	 Discussion Discussion
0102	Ryan Curtis W 4:00pm - 5:20pm F 11:00am - 11:50am Class time/details on ELMs	Seats (Total: 30) BRB 1101 BPS 1238 ONLINE	 Discussion Discussion
0103	Ryan Curtis W 4:00pm - 5:20pm F 11:00am - 11:50am Class time/details on ELMs	Seats (Total: 30) BRB 1101 BPS 0283 ONLINE	 Discussion Discussion
0104	Ryan Curtis W 4:00pm - 5:20pm F 2:00pm - 2:50pm Class time/details on ELMs	Seats (Total: 30) BRB 1101 BPS 1236 ONLINE	 Discussion Discussion

0105	Ryan Curtis	Seats (Total: 30)	
	W 4:00pm - 5:20pm	BRB 1101	
	F 3:00pm - 3:50pm	BPS 1236	Discussion
	Class time/details on ELMs	ONLINE	Discussion
0106	Ryan Curtis	Seats (Total: 30)	
	W 4:00pm - 5:20pm	BRB 1101	
	F 8:00am - 8:50am	BPS 1238	Discussion
	Class time/details on ELMs	ONLINE	Discussion
0107	Ryan Curtis	Seats (Total: 30)	
	W 4:00pm - 5:20pm	BRB 1101	
	F 11:00am - 11:50am	BPS 1238	Discussion
	Class time/details on ELMs	ONLINE	Discussion
0108	Ryan Curtis	Seats (Total: 30)	
	W 4:00pm - 5:20pm	BRB 1101	
	F 11:00am - 11:50am	BPS 0283	Discussion
	Class time/details on ELMs	ONLINE	Discussion
0109	Ryan Curtis	Seats (Total: 30)	
	W 4:00pm - 5:20pm	BRB 1101	
	F 2:00pm - 2:50pm	BPS 1236	Discussion
	Class time/details on ELMs	ONLINE	Discussion
0110	Ryan Curtis	Seats (Total: 30)	
	W 4:00pm - 5:20pm	BRB 1101	
	F 3:00pm - 3:50pm	BPS 1236	Discussion
	Class time/details on ELMs	ONLINE	Discussion
0201	Dylan Selterman	Seats (Total: 30)	
	Th 3:30pm - 4:50pm	BRB 1101	
	F 9:00am - 9:50am	BPS 1236	Discussion
	Class time/details on ELMs	ONLINE	Discussion
0202	Dylan Selterman	Seats (Total: 30)	
	Th 3:30pm - 4:50pm	BRB 1101	
	F 10:00am - 10:50am	BPS 0283	Discussion
	Class time/details on ELMs	ONLINE	Discussion

0203	Dylan Selterman	Seats (Total: 30)	
	Th 3:30pm - 4:50pm	BRB 1101	
	F 11:00am - 11:50am	HBK 0109	Discussion
	Class time/details on ELMs	ONLINE	Discussion
0204	Dylan Selterman	Seats (Total: 30)	
	Th 3:30pm - 4:50pm	BRB 1101	
	F 12:00pm - 12:50pm	BPS 0283	Discussion
	Class time/details on ELMs	ONLINE	Discussion
0205	Dylan Selterman	Seats (Total: 30)	
	Th 3:30pm - 4:50pm	BRB 1101	
	F 3:00pm - 3:50pm	BPS 0283	Discussion
	Class time/details on ELMs	ONLINE	Discussion
0206	Dylan Selterman	Seats (Total: 30)	
	Th 3:30pm - 4:50pm	BRB 1101	
	F 9:00am - 9:50am	BPS 1236	Discussion
	Class time/details on ELMs	ONLINE	Discussion
0207	Dylan Selterman	Seats (Total: 30)	
	Th 3:30pm - 4:50pm	BRB 1101	
	F 10:00am - 10:50am	BPS 0283	Discussion
	Class time/details on ELMs	ONLINE	Discussion
0208	Dylan Selterman	Seats (Total: 30)	
	Th 3:30pm - 4:50pm	BRB 1101	
	F 11:00am - 11:50am	HBK 0109	Discussion
	Class time/details on ELMs	ONLINE	Discussion
0209	Dylan Selterman	Seats (Total: 30)	
	Th 3:30pm - 4:50pm	BRB 1101	
	F 12:00pm - 12:50pm	BPS 0283	Discussion
	Class time/details on ELMs	ONLINE	Discussion
0210	Dylan Selterman	Seats (Total: 30)	
	Th 3:30pm - 4:50pm	BRB 1101	
	F 3:00pm - 3:50pm	BPS 0283	Discussion
	Class time/details on ELMs	ONLINE	Discussion

FC01	Scott Roberts MW 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 40) ESJ 0215
FC02	Scott Roberts MW 6:00pm - 7:15pm *Restricted to students in Freshman Connection.*	Seats (Total: 40) ESJ 0215
FC03	Scott Roberts TuTh 6:00pm - 7:15pm *Restricted to students in Freshman Connection.*	Seats (Total: 40) ESJ 2212

PSYC123 **The Psychology of Getting Hired**

Credits: 1 Grading Method: Regular

Restriction: Must not be in a Robert H. Smith School of Business degree program. Additional information: Cannot be used in place of BMGT367 toward a degree program in the Robert H. Smith School of Business.

Designed to introduce students to the science behind the hiring process and to prepare individuals with the academic and practical training required. Together we will explore psychological principles that influence the selection process and how individuals can apply them for the competitive edge that makes others Fear the Turtle!

0101	Rebecca Weir Class time/details on ELMs	Seats (Total: 100) ONLINE
0201	Rebecca Weir Class time/details on ELMs	Seats (Total: 100) ONLINE
0301	Rebecca Weir Class time/details on ELMs	Seats (Total: 100) ONLINE
0401	Rebecca Weir Class time/details on ELMs	Seats (Total: 100) ONLINE

PSYC200 **Statistical Methods in Psychology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: FSAR

Prerequisite: PSYC100. And 1 course with a minimum grade of C- from (MATH107, MATH111, MATH120, MATH130, MATH136, MATH140, STAT100); or must have completed MATH220 with a minimum grade of C-. Credit only granted for: BIOM301, BMGT230, CCJS200, ECON230, ECON321, EDMS451, GEOG306, GEOL351, GVPT422, INST314, JOUR405, PSYC200 or SOCY201. (These courses do not necessarily meet the same major requirements-check with your advisor to see which of these courses will count for your major).

A basic introduction to quantitative methods used in psychological research.

Restricted to PSYC, ENSP and BSCI majors.

Click here for sample course syllabus.

0101	Tracy Tomlinson	Seats (Total: 28)	
	TuTh 8:00am - 9:15am	BPS 1250	
	M 9:00am - 9:50am	BPS 1238	Discussion
	Class time/details on ELMs	ONLINE	Discussion
0102	Tracy Tomlinson	Seats (Total: 28)	
	TuTh 8:00am - 9:15am	BPS 1250	
	M 10:00am - 10:50am	BPS 1228	Discussion
	Class time/details on ELMs	ONLINE	Discussion
0103	Tracy Tomlinson	Seats (Total: 28)	
	TuTh 8:00am - 9:15am	BPS 1250	
	M 12:00pm - 12:50pm	BPS 1238	Discussion
	Class time/details on ELMs	ONLINE	Discussion
0104	Tracy Tomlinson	Seats (Total: 28)	
	TuTh 8:00am - 9:15am	BPS 1250	
	M 2:00pm - 2:50pm	BPS 0283	Discussion
	Class time/details on ELMs	ONLINE	Discussion
0105	Tracy Tomlinson	Seats (Total: 28)	
	TuTh 8:00am - 9:15am	BPS 1250	
	M 1:00pm - 1:50pm	BPS 1238	Discussion
	Class time/details on ELMs	ONLINE	Discussion
0201	Tracy Tomlinson	Seats (Total: 28)	
	TuTh 9:30am - 10:45am	BPS 1250	
	M 9:00am - 9:50am	BPS 1228	Discussion
	Class time/details on ELMs	ONLINE	Discussion

0202	Tracy Tomlinson TuTh 9:30am - 10:45am M 10:00am - 10:50am Class time/details on ELMs	Seats (Total: 28) BPS 1250 BPS 1232 ONLINE	 Discussion Discussion
0203	Tracy Tomlinson TuTh 9:30am - 10:45am M 11:00am - 11:50am Class time/details on ELMs	Seats (Total: 28) BPS 1250 PLS 1113 ONLINE	 Discussion Discussion
0204	Tracy Tomlinson TuTh 9:30am - 10:45am M 2:00pm - 2:50pm Class time/details on ELMs	Seats (Total: 28) BPS 1250 BPS 1228 ONLINE	 Discussion Discussion
0205	Tracy Tomlinson TuTh 9:30am - 10:45am M 1:00pm - 1:50pm Class time/details on ELMs	Seats (Total: 28) BPS 1250 BPS 1236 ONLINE	 Discussion Discussion

PSYC206 **Developmental Biopsychology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC100.

Biological basis of behavioral development in relation to genetic, constitutional, anatomical, physiological, and environmental factors. Emphasis upon both phylogenetic and ontogenetic research findings in biological psychology.

0101	Steven Brauth TuTh 12:30pm - 1:45pm	Seats (Total: 40) BPS 1236

PSYC221 **Social Psychology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SB General Education: DSHS, DSSP

Prerequisite: PSYC100.

The influence of social factors on the individual and on interpersonal behavior. Includes topics such as conformity, attitude change, person perception, interpersonal attraction, and group behavior.

Click here for sample course syllabus.

0101	Jennifer Wessel TuTh 12:30pm - 1:45pm	Seats (Total: 150) BPS 1250	
0201	Dylan Selterman MW 2:00pm - 2:50pm F 2:00pm - 2:50pm	Seats (Total: 150) BPS 1250 BPS 1250	 Discussion
0301	Dirk Parham MW 5:00pm - 6:15pm	Seats (Total: 150) HJP 0226	
FC01	Dylan Selterman TuTh 6:00pm - 7:15pm *Restricted to students in Freshman Connection.*	Seats (Total: 40) BPS 1243	

PSYC221H **Social Psychology**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS, DSSP

Prerequisite: PSYC100.

The influence of social factors on the individual and on interpersonal behavior. Includes topics such as conformity, attitude change, person perception, interpersonal attraction, and group behavior.

Open to students in the University Honors programs only.

0101	Ryan Curtis TuTh 12:30pm - 1:45pm	Seats (Total: 15) BPS 1238

PSYC289D **Living the Good Life: The Psychology of Happiness**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS, SCIS

0101	Dylan Selterman TuTh 2:00pm - 3:15pm	Seats (Total: 135) BPS 1250
0201	Dylan Selterman MW 3:00pm - 4:15pm	Seats (Total: 100) BPS 1250

PSYC300 **Research Methods in Psychology Laboratory**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

Prerequisite: PSYC200. Restriction: Must be in Psychology program. Credit only granted for: PSYC300 or PSYC309R. Formerly: PSYC309R.

A general introduction and overview to the fundamental theoretical, conceptual, and practical issues in psychological research in both the laboratory and the field.

For PSYC majors only.

0101	Edward Bernat MW 11:00am - 11:50am Th 12:00pm - 1:50pm	Seats (Total: 16) TYD 0117 EGR 1102	Discussion
0102	Edward Bernat MW 11:00am - 11:50am Th 10:00am - 11:50am	Seats (Total: 16) TYD 0117 CHE 2140	Discussion
0103	Edward Bernat MW 11:00am - 11:50am Th 2:00pm - 3:50pm	Seats (Total: 16) TYD 0117 ATL 1106	Discussion
0104	Edward Bernat MW 11:00am - 11:50am F 10:00am - 11:50am	Seats (Total: 16) TYD 0117 BPS 0140	Discussion
0105	Edward Bernat MW 11:00am - 11:50am Th 12:00pm - 1:50pm	Seats (Total: 16) TYD 0117 PLS 1158	Discussion
0106	Edward Bernat MW 11:00am - 11:50am F 2:00pm - 3:50pm	Seats (Total: 16) TYD 0117 PLS 1158	Discussion
0201	Edward Bernat MW 1:00pm - 1:50pm Th 4:00pm - 5:50pm	Seats (Total: 16) BPS 1250 BPS 1232	Discussion
0202	Edward Bernat MW 1:00pm - 1:50pm F 10:00am - 11:50am	Seats (Total: 16) BPS 1250 BPS 1232	Discussion

0203	Edward Bernat MW 1:00pm - 1:50pm F 12:00pm - 1:50pm	Seats (Total: 16) BPS 1250 BPS 1232	 Discussion
0204	Edward Bernat MW 1:00pm - 1:50pm F 2:00pm - 3:50pm	Seats (Total: 16) BPS 1250 BPS 1232	 Discussion
0205	Edward Bernat MW 1:00pm - 1:50pm W 4:00pm - 5:50pm	Seats (Total: 16) BPS 1250 BPS 1232	 Discussion
0206	Edward Bernat MW 1:00pm - 1:50pm F 12:00pm - 1:50pm	Seats (Total: 16) BPS 1250 PLS 1162	 Discussion

PSYC301 **Biological Basis of Behavior**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSNS

Prerequisite: PSYC100. And BSCI170 and BSCI171; or BSCI105.

Recent advances in neuroscience are radically changing our understanding of how the brain works. The course first introduces the structure of the nervous system and the electrical and chemical signals at the core of brain function. Students then explore how the nervous system gathers and makes sense of information from the world around us. The last portion of the course focuses on plasticity, the concept that our brains are constantly changing, and its implications for nervous system development, memory, sexual behavior, sleep, and other complex behaviors.

Restricted to PSYC (major code 20010) students only.

Click here for sample course syllabus.

0101	Anna Li MWF 9:00am - 9:50am	Seats (Total: 150) BPS 1250	

PSYC302 **Fundamentals of Learning and Behavior**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC100. And BSCI170 and BSCI171; or BSCI105. Restriction: Restricted to psychology majors during the registration period. All other majors will be placed on a hold file. Credit only granted for: PSYC309F or PSYC302. Formerly: PSYC309F.

Overview of the fundamental types of learning that occur without formal instruction. The course covers fundamentals of classical and instrumental conditioning as studied in a variety of species in addition to more modern theories of learning. We will then explore how these principles influence diverse processes such as memory, attention, extinction, categorization, motivation, and in some cases, how they are implemented in the brain and disrupted in disease.

Contact department for information to register for this course.

PSYC303 **Professional Development for Psychology Majors**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC100; and must have completed 3 additional credits in PSYC courses. Or permission of BSOS-Psychology department. Restriction: Must be in a major within BSOS-Psychology department. Credit only granted for: PSYC309C or PSYC303. Formerly: PSYC309C.

An investigation of various career and graduate school opportunities available to psychology majors. Students will learn about a wide range of career fields, will learn how to utilize available resources to pursue career goals, and will take steps to advance their professional identity and development.

0101	Kevin McGann	Seats (Total: 50)
	Class time/details on ELMs	ONLINE

PSYC318D **Community Interventions: Theory and Research; Community Interventions: Domestic Violence**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Survey and critical examination of a problem in the community and related interventions. Analysis of theory and research relevant to the problem. Historical and current trends discussed. A student who has completed PSYC309 must have permission of the department in order to register for PSYC318.

Also offered as WMST498A. For PSYC majors only. Theories and research related to domestic violence and interventions with abused women will be studied, and students will think critically regarding ethical and multicultural issues related to domestic violence. Community resources and strategies for ending domestic violence in the United States will be discussed.

0101	Karen O'Brien	Seats (Total: 35)
	MW 8:00am - 9:15am	PLS 1111

PSYC330 **Child Psychopathology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC100. Restriction: Must be in Psychology program. Credit only granted for: PSYC309B or PSYC330. Formerly: PSYC309B.

Etiology, diagnosis, prevention and treatment of emotional disorders of childhood and adolescence.

For PSYC majors only.

0101	Andrea Chronis-Tuscano	Seats (Total: 100)
	TuTh 11:00am - 12:15pm	BPS 1243

PSYC332 **Psychology of Human Sexuality**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC100.

A survey of historical and contemporary psychological views on a wide variety of sexual behaviors; theory and research bearing on the relationship between life span psychological development, psychological functioning, interpersonal processes and sexual behaviors; political and social issues involved in current sexual norms and practices.

Contact department for information to register for this course.

PSYC334 **Psychology of Interpersonal Relationships**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC100.

Research, theory and their practical applications pertaining to the development, maintenance and dissolution of human relationships. Processes critical to successful relating (e.g., communication, bargaining, conflict resolution), and issues associated with troubled dyadic relations with equal partners (e.g., jealousy, spouse abuse, divorce).

Restricted to PSYC (major code 20010) students only.

Click here for sample course syllabus.

0101	Ryan Curtis	Seats (Total: 150)
	TuTh 9:30am - 10:45am	ESJ 2204

PSYC336 **Psychology of Women**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit , D General Education: DSHS

Prerequisite: PSYC100. Also offered as: WMST336. Credit only granted for: PSYC336 or WMST336.

A survey of the biology, life span development, socialization, personality, mental health, and special issues of women.

Restricted to undergraduate PSYC students only. Students will be expected to meet face-to-face during class time to comp lete small group work on 5-6 Fridays during the semester.

Click here for sample course syllabus.

0101	Jennifer Brady	Seats (Total: 110)
	MW 12:00pm - 12:50pm F 12:00pm - 12:50pm	BPS 1250 ONLINE

PSYC338D **Special Topics in Study Abroad III; Developmental Disorders**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

PSYC338L **Special Topics in Study Abroad III; Dynamic Project Leadership**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

PSYC338N **Special Topics in Study Abroad III; Neuroscience of Fear**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

PSYC338P **Special Topics in Study Abroad III; Positive Psychology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

PSYC341 **Introduction to Memory and Cognition**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC200 and PSYC300.

An introduction to the basic concepts of cognitive psychology, the scientific study of mental processes. Topics will include perception, attention, memory, reasoning, and language, with an emphasis on how findings from cognitive psychology can inform real-life thinking (e.g., memory strategies for studying, pitfalls of multitasking, and how/why our memories can fail us).

Restricted to PSYC (major code 20010) students only.

Click here for sample course syllabus.

0101	Meg O'Neill	Seats (Total: 117)
	TuTh 12:30pm - 1:45pm	BPS 1243

PSYC353 **Adult Psychopathology**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC100. Restriction: Must be in Psychology program.

The nature, diagnosis, etiology, and treatment of mental disorders.

Restricted to undergraduate PSYC students only.

Click here for sample course syllabus.

0101	Jessica Magidson	Seats (Total: 117)
	TuTh 2:00pm - 3:15pm	BPS 1243

PSYC354 **Multicultural Psychology in the U.S.**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | , D | General Education: DSHS

Prerequisite: PSYC100.

What are the psychological implications of racism, sexism, homophobia and other structures of inequality in the United States? How do socio-cultural privilege and oppression influence individual and group thoughts, feelings, and behaviors? This course will take a current events focus to understanding multicultural and social justice issues in psychology with an emphasis on self-reflection, mental health, cross-cultural communication, and strategies for social change.

Click here for sample course syllabus.

0101	Meg O'Neill MW 10:00am - 10:50am Class time/details on ELMs	Seats (Total: 150) BPS 1250 ONLINE

PSYC355 **Developmental Psychology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC100.

Survey of research and theory of psychological development from conception through childhood, stressing physiological, conceptual and behavioral changes, and the social and biological context in which individuals develop.

Restricted to undergraduate PSYC students only.

Click here for sample course syllabus.

0101	Kelsey Canada TuTh 11:00am - 12:15pm	Seats (Total: 150) ESJ 2204

PSYC361 **Survey of Industrial and Organizational Psychology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC100.

A general survey of the field of industrial organizational psychology including such topics as organizational entry (recruitment, selection, training, socialization); organizational psychology (motivation, leadership, job attitudes); and productivity in the work place (performance appraisal, absenteeism, turnover). The role that the larger environment plays in influencing work behaviors and work attitudes.

Restricted to PSYC (major code 20010) students only.

Click here for sample course syllabus.

0101	James Grand TuTh 9:30am - 10:45am	Seats (Total: 50) BPS 1236

PSYC389 **Experiential Learning**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

Internship in psychology-related fields.

For PSYC majors only. A course for undergraduate psychology majors to earn academic credit for an approved psychology-related internship experience. Information about the course may be obtained in BPS1107, or by contacting the instructor. Restricted to PSYC majors only.

0101	Steven Young	Seats (Total: 20)
	Contact instructor or department for details.	

PSYC403 **Animal Behavior**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC301.

Reviews the theoretical framework underlying the study of animal behavior. The genetic, hormonal and physiological basis of behavior, and the relation to ecological and evolutionary processes will be discussed using examples that range from invertebrate animals to humans.

For PSYC majors only.

0101	Jens Herberholz	Seats (Total: 40)
	TuTh 2:00pm - 3:15pm	BPS 0283

PSYC404 **Introduction to Behavioral Pharmacology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC301. Restriction: Must be in Psychology program.

Theoretical viewpoints on the interaction of drugs and behavior. Basic principles of pharmacology, the effects of drugs on various behaviors, experimental analysis of drug dependence and abuse, and neuropharmacology and behavior.

Contact department for information to register for this course.

PSYC407 **Behavioral Neurobiology Laboratory**

(Perm req)

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC300 and PSYC301; and permission of instructor. Restriction: Must be in Psychology program; and must have earned a minimum of 85 credits.

How does the nervous system control behavior? We will address this question using simple behavioral experiments combined, in some exercises, with microsurgery and electrode recordings in the nervous system. Concepts studied will include CNS plasticity, the role of proprioception in controlling movement, cortical processing and the myth multitasking, sensory resolution by measuring receptive field sizes, activity of simple neural circuits controlling escape from predators, and the effects of neuromodulators on aggression. Animals used are all invertebrates.

Permission required (contact professor, ddyager@umd.edu)

Click here for sample course syllabus.

0101	David Yager MW 9:00am - 9:50am M 1:00pm - 4:00pm	Seats (Total: 8) BPS 0140 BPS 0263	 Lab
0201	David Yager MW 9:00am - 9:50am W 2:00pm - 5:00pm	Seats (Total: 8) BPS 0140 BPS 0263	 Lab
0301	David Yager MW 9:00am - 9:50am Tu 2:00pm - 5:00pm	Seats (Total: 8) BPS 0140 BPS 0263	 Lab

PSYC409 **Topics in Neurosciences Seminar**

(Perm req)

Credits: 1 Grading Method: Regular

Current research in neurosciences will be presented, read, and discussed. Emphasis will change each term.

For students in the neuroscience minor. Research presentations on selected topics in neuroscience. Review and discussion of background readings related to research presentations take place on alternate weeks. Restricted to students in the neuroscience minor.

0101	Meg O'Neill W 2:00pm - 3:50pm	Seats (Total: 38) BPS 1140B

PSYC414 **Science of Sleep and Biological Rhythms**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit, Sat-Fail

Prerequisite: Permission of instructor; or (PSYC100 and PSYC301). Restriction: Must be in a major within the BSOS-Psychology department; and restricted to psychology majors during the registration period. All other majors will be placed on a hold file.

Sleep is a powerful, inescapable, misunderstood, and mysterious presence in our lives. The course will begin with a review of the basics of sleep and biological rhythms with a focus on the underlying neurobiology. The bulk of the semester will be in-depth discussions of topics in sleep and circadian rhythms primarily chosen by the students. A few examples: narcolepsy, sleep in primitive cultures, lucid dreaming, racial and cultural differences in sleep and sleep disorders, the biology of sleep and circadian rhythms during adolescence, CNS control of dreaming, sleep and states of consciousness, sleeping to remember vs. sleeping to forget, legal ramifications of parasomnias, e.g. sleepwalking, and the relationships between sleep deprivation and obesity.

Not recommended for students who have taken HONR209O.

0101	David Yager MWF 11:00am - 11:50am	Seats (Total: 25) BPS 1236	

PSYC420 Experimental Psychology: Social Psychology Laboratory

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC300 and PSYC221. Restriction: Must be in Psychology program; and must have earned a minimum of 85 credits.

A laboratory course to provide a basic understanding of experimental method in social psychology and experience in conducting research on social processes.

Click here for sample course syllabus.

0101	Rachel Venaglia MW 10:00am - 10:50am Th 10:00am - 11:50am	Seats (Total: 13) BPS 1236 Location: TBA	Lab
0102	Rachel Venaglia MW 10:00am - 10:50am Th 12:00pm - 1:50pm	Seats (Total: 12) BPS 1236 Location: TBA	Lab
0201	Edward Lemay MW 11:00am - 11:50am F 10:00am - 11:50am	Seats (Total: 13) BPS 1238 Location: TBA	Lab
0202	Edward Lemay MW 11:00am - 11:50am F 12:00pm - 1:50pm	Seats (Total: 12) BPS 1238 Location: TBA	Lab

PSYC424 Communication and Persuasion

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

Prerequisite: PSYC221 and PSYC200.

Effect of social communication upon behavior and attitudes. Theory and research concerning attitude change and social influence.

0101	Meg O'Neill	Seats (Total: 40)
	TuTh 2:00pm - 3:15pm	BPS 1236

PSYC425 **Psychology and Law**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC100, PSYC200, and PSYC300. Restriction: Must be in Psychology program. Credit only granted for: PSYC309K, PSYC325, or PSYC425. Formerly: PSYC309K.

An introduction to the intersection of psychology and the criminal justice sytem, known as the field of legal psychology. The material covered will span the course of the criminal justice process and examine each aspect from a psychological perspective beginning with profiling and moving on to eyewitness memory and judgements through perpetrator memories and interrogation techniques. These apsects will be evaluated with a research lens as well as an applied outlook.

0101	Tracy Tomlinson	Seats (Total: 30)
	TuTh 12:30pm - 1:45pm	BPS 1232

PSYC432 **Counseling Psychology: Theories, Research, and Practice**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC200.

Analysis of research and intervention strategies developed and used by counseling psychologists. Historical and current trends in content and methodology.

Restricted to undergraduate PSYC majors only. Students will be expected to meet face-to-face during class time to complete small group work on 5-6 Fridays during the semester.

Click here for sample course syllabus.

0101	Nazish Salahuddin	Seats (Total: 75)
	MW 9:00am - 9:50am F 9:00am - 9:50am	BPS 1243 ONLINE

0201	Derek Iwamoto MW 2:00pm - 3:15pm	Seats (Total: 75) MCB 1207	

PSYC433 **Basic Helping Skills: Research and Practice**

Credits: 4 Grading Method: Regular

Prerequisite: PSYC300. Restriction: Must be in Psychology program; and must have earned a minimum of 85 credits; and must not have completed or be concurrently enrolled in EDCP 310. Credit only granted for: EDCP210, EDCP310, or PSYC433.

Theories and research regarding effective helping relationships, with a focus on applications to counseling and psychotherapy. Students will practice helping skills with each other and will conduct research projects evaluating their helping skills. Students should be willing to talk about personal issues in class. Attendance in labs is mandatory and contributes to the course grade; thus, students should only enroll in a lab section that they will be able to attend consistently.

Restricted to undergraduate PSYC majors who have completed 85 credits.

Click here for sample course syllabus.

0101	Jonathan Mohr M 2:00pm - 3:50pm W 9:00am - 10:50am	Seats (Total: 12) BPS 1243 BPS 1228	 Lab
0102	Jonathan Mohr M 2:00pm - 3:50pm W 11:00am - 12:50pm	Seats (Total: 12) BPS 1243 BPS 1234	 Lab
0103	Jonathan Mohr M 2:00pm - 3:50pm Th 4:00pm - 5:50pm	Seats (Total: 12) BPS 1243 BPS 1234	 Lab
0104	Jonathan Mohr M 2:00pm - 3:50pm W 3:00pm - 4:50pm	Seats (Total: 12) BPS 1243 BPS 1234	 Lab
0105	Jonathan Mohr M 2:00pm - 3:50pm Th 2:00pm - 3:50pm	Seats (Total: 12) BPS 1243 BPS 1234	 Lab
0106	Jonathan Mohr M 2:00pm - 3:50pm F 9:00am - 10:50am	Seats (Total: 12) BPS 1243 BPS 1234	 Lab

0107	Jonathan Mohr M 2:00pm - 3:50pm F 11:00am - 12:50pm	Seats (Total: 12) BPS 1243 BPS 1234	 Lab
0108	Jonathan Mohr M 2:00pm - 3:50pm F 1:00pm - 2:50pm	Seats (Total: 12) BPS 1243 BPS 1234	 Lab
0109	Jonathan Mohr M 2:00pm - 3:50pm F 1:00pm - 2:50pm	Seats (Total: 12) BPS 1243 BPS 1228	 Lab

PSYC435 **Theories of Personality and Psychotherapy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC200.

Major theories of personality and research methods and findings relevant to those theories.

0101	Alexander Shackman MW 5:00pm - 6:15pm	Seats (Total: 75) BPS 1250

PSYC436 **Introduction to Clinical Psychology: From Science to Practice**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC300.

Critical analysis of clinical psychology, with particular emphasis on current developments and trends.

Restricted to undergraduate PSYC majors only.

Click here for sample course syllabus.

0101	Andres De Los Reyes MWF 11:00am - 11:50am	Seats (Total: 75) ESJ 0215

PSYC437 **The Assessment and Treatment of Addictive Behaviors**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC100; and 9 credits in PSYC courses. Credit only granted for: PSYC309E (taken in the Winter Term) or PSCY437. Formerly: PSYC309E.

Explores the current research in assessment and treatment of addictive behaviors. Topics may include addictions in the areas of alcohol, drugs, nicotine, gambling, and eating.

0101	Cristina Risco	Seats (Total: 80)	
	TuTh 5:00pm - 6:15pm	TWS 0310	

PSYC440 **Experimental Psychology: Cognitive Processes and Legal Applications**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC341 and PSYC300. Restriction: Must be in Psychology program; and must have earned a minimum of 85 credits.

A survey of the content, models, and methods in cognitive psychology with an emphasis on attention and encoding, recall, recognition, judgment, signal detection theory, and applying cognitive theories to situations in the legal system. Students integrate scientific theories with real-life legal situations. Course topics include research methodology in assessing and addressing cognitive mechanisms and how this understanding may help eyewitness and victim recall and recognition, perpetrator recall, assessing scientific theories of repression, and real life examples.

0101	Tracy Tomlinson	Seats (Total: 24)	
	TuTh 2:00pm - 3:15pm	BPS 1232	
	W 1:00pm - 4:00pm	BPS 0140	Lab

PSYC442 **Psychology of Language**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC300 and PSYC341. Restriction: Must be in Psychology program.

Introductory survey of the psychology of language, focusing on the cognitive processes that enable us to produce and understand language. Topics include speech perception, speech production, syntactic processing, language development, language disorders, and the brain bases of language.

Contact department for information to register for this course.

PSYC455 **Cognitive Development**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC300; and PSYC355. Or permission of instructor. Restriction: Must be in Psychology program.

Theory and research on cognition from a developmental perspective. This discussion-based seminar will emphasize readings on infancy through early childhood. Topics will include general abilities such as memory and categorization, as well as children's emerging knowledge about the physical and social worlds.

0101	Jonathan Beier	Seats (Total: 25)
	TuTh 2:00pm - 3:15pm	COL 0211

PSYC460 **Psychological Foundations of Personnel Selection and Training**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC361 and PSYC200.

An examination of issues and processes involved in the design and evaluation of personnel selection and training programs in a variety of organizational settings: job, person and organizational analysis; organizational choice; development of predictors; evaluation of instructional and training systems; criteria for performance evaluation, promotion and training.

For PSYC majors only.

0101	Paul Hanges	Seats (Total: 40)
	TuTh 11:00am - 12:15pm	BPS 0283

PSYC468H **Field Experience and Special Assignments in Honors**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

An individual experience arranged by the honors student and his or her supervisor. A proposal submitted to the honors faculty in the semester preceding registration for the course should state the activities anticipated and the method of evaluation.

5008	Karen O'Brien	Seats (Total: 1)
	Contact instructor or department for details.	

PSYC469H **Honors Thesis Proposal Preparation**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Development of honors thesis proposal by preliminary research and literature review. Presentation of formal proposal to the thesis committee.

Restricted to undergraduate PSYC majors only.

Contact department for information to register for this course.

PSYC478 **Independent Study in Psychology**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Information about independent study may be obtained in BPS 1121. Restricted to PSYC majors (20010) only. The student must have completed 9 hours in PSYC with at least a 3.0 GPA in PSYC and a 2.8 overall GPA.

Contact department for information to register for this course.

PSYC479 **Special Research Problems in Psychology**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Information about research credit may be obtained in BPS 1121. Restricted to PSYC majors (20010) only. The student must have completed 9 hours in PSYC with at least a 3.0 GPA in PSYC and a 2.8 overall GPA.

Contact department for information to register for this course.

PSYC489D **Advanced Special Topics in Psychology; Data Science for Psychology and Neuroscience I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Treatment of a specialized topic in psychology.

Prerequisites: MATH120, MATH130, or MATH140; and PSYC300. An introduction to programming (in R and/ or Python) and statistics from a computational perspective. Highly hands-on with a heavy emphasis on project work, and a focus on application and execution over theory, which is introduced at a high level only where needed. Restriction: PSYC majors only (until the first day of classes).

0101	Alec Solway	Seats (Total: 24)
	TuTh 3:30pm - 4:45pm	BPS 0140

PSYC489G **Advanced Special Topics in Psychology; Hormones and Behavior**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Treatment of a specialized topic in psychology.

Prerequisite: PSYC301 or eqivalent. For students who have not had PSYC301, written permission of the instructor and department is required. Restricted to PSYC (major code 20010) students only. Also offered as NACS728O. Credit only granted for PSYC489G or NACS728O. Formerly: PSYC309Z. This course presents a comprehensive overview of the field of behavioral endocrinology, the study of the relationship between hormones and behavior, from a psychobiological perspective. We will examine the major mammalian endocrine systems, how hormones influence sex determination, how hormones underlie sex differences in brain structure and function, the role of hormones in parental and social behaviors, mood disorders, homeostasis, cognition and stress. Both normal and abnormal hormonal pathologies will be discussed. Due to the physiological and experimental erspectives of this course, much of the phenomenology that we will be studying will be based on research in species other than humans. This species comparative approach will reveal interesting "ways of doing things" that are intriguingly different from how "humans" do things.

0101	Erica Glasper Andrews	Seats (Total: 40)
	TuTh 9:30am - 10:45am	BPS 1238

PSYC489O **Advanced Special Topics in Psychology; History of Psychology**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Treatment of a specialized topic in psychology.

Prerequisite: PSYC200. A comprehensive overview of the history of psychology. We will examine (1) the theoretical and methodological origins of modern psychology from within the fields of philosophy and the and the natural sciences of the ancient world and (2) the subsequent development of psychology as the Renaissance and the Industrial Revolution brought about further advances in both theory and practice in biology, medicine, astronomy, statistics, and other sciences especially in the 18th and 19th centuries. In particular we will discuss the impact of advances in these scientific fields on theory and practice in psychology and its newly blossoming specialty areas as they began to emerge as an independent field of psychology.For students enrolled in the Psychology Honors Program. Email lkader@umd.edu for permission.

0101	William Hodos	Seats (Total: 20)
	TuTh 2:00pm - 3:15pm	BPS 0140

PSYC489Z **Advanced Special Topics in Psychology; Asian American Psychology**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Treatment of a specialized topic in psychology.

Also offered as AAST498J and AMST498Q. Credit only granted for AAST498J, AMST498Q, or PSYC489Z. This course provides students with an understanding of the ecological influences on Asian American psychological well-being. It begins with the individual, covering topics relating to various social identities pertaining to Asian Americans. Moving outward, it highlights family and peer relationships. At the community and cultural level, the course focuses on the process of migration and acculturation. Finally, it concludes with a discussion of social advocacy, service provisions and cultural competency.

0101	Xiaofang Wang Lanterman	Seats (Total: 25)
	TuTh 2:00pm - 3:15pm	JMZ 1215

PSYC499H **Honors Thesis Research**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

In addition to the department and instructor, the director of the honors program may be contacted to obtain a section number. Prerequisite: permission of the thesis advisor. Permission may be obtained in BPS 1147. Restricted to undergraduate PSYC majors only.

Contact department for information to register for this course.

PSYC601 **Quantitative Methods I**

(Perm req)

Credits: 4 Grading Method: Regular, Audit

Prerequisite: PSYC200; or students who have taken courses with comparable content may contact the department.

A basic course in quantitative/mathematical analysis and statistical methods in psychology with an emphasis on conceptual understanding. Topics include issues in measurement, probability theory, statistical inference and hypothesis testing, parameter estimation, bivariate regression, and correlation.

For PSYC majors only. For all non-psychology graduate students, written permission of the instructor and department is required.

0101	Alison Robey	Seats (Total: 23)	
	TuTh 9:00am - 10:50am	BPS 0283	
	Th 5:00pm - 7:00pm	BPS 0140	Lab

PSYC603 **Introduction to Industrial and Organizational Psychology**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: PSYC603 or PSYC730. Formerly: PSYC730.

Advanced survey of industrial-organizational psychology, including selection, training, motivation, group processes, leadership, organizational psychology, and organizational theory. Readings stressed and seminar time will be used for lectures, discussion and integration of the reading materials.

Restricted to students in Industrial/Organizational Psychology.

Click here for program information.

PYP1	Kenneth Yusko	Seats (Total: 40)
	Meets August 27, 2018 - November 16, 2018	
	M 4:30pm - 8:30pm Contact instructor or department for details.	ONLINE

PSYC612 **Affective Science Perspectives on Temperament & Personality**

Credits: 3 Grading Method: Regular, Audit

Scientific requirements for a personality theory. Postulates and relevant research literature for several current personality theories.

What makes each of us unique? How do these differences contribute to enduring differences in health & wealth? Review work in humans/non-humans aimed at understanding the psychobiological mechanisms underlying trait-like differences in personality (Negative/Positive Emotionality & Self-Control). Discuss phylogenetic/ontogenetic origins of temperment (e.g. Behavioral Inhibition), measurement issues, fundamental dimensions, mechanisms contributing to stability/change, heritability, implications for psychopathology & therapeutic intervention, & implications for public policy. Drill deeply into the neurobiology of fear/anxiety (systems- level & molecular/genetic/epigenetic evidence).

0101	Alexander Shackman	Seats (Total: 24)
	M 9:00am - 11:45am	BPS 1234

PSYC622 **Research Methods in Clinical Psychology**

Credits: 3 Grading Method: Regular

Restriction: Permission of instructor. Credit only granted for: PSYC622 or PSYC718. Formerly: PSYC718.

Examines issues and strategies in conceptual systems, designs and methodologies of current research in clinical and community psychology. Readings include critical analyses of published research. Course requirements include preparation of a research proposal for a thesis level study.

PCC1	Michael Meinzer	Seats (Total: 45)
	Meets August 27, 2018 - November 16, 2018	
	Tu 6:00pm - 9:10pm	BPS 0283
	Restricted to students in Clinical Psychological Science program.	

PSYC623 Child Psychopathology

Credits: 3 Grading Method: Regular

Restriction: Permission of instructor; and must be in one of the following programs (Psychology (Master's); Psychology (Doctoral)).

Examines the scientific and clinical literature relevant to normal and pathological behavior in children and adolescents. Issues in developmental psychopathology and consideration of processes initiated in childhood which manifest as pathology in adulthood are also considered.

0101	Christina Danko	Seats (Total: 20)
	Tu 2:30pm - 5:00pm	BPS 1140B

PSYC629B Clinical Laboratory; Assessment Practicum

Credits: 1-3 Grading Method: Sat-Fail

Provides advanced supervised experience in the delivery and supervision of mental health interventions targeted to individuals. Supervised work with clients is required.

0101	Andrea Chisolm	Seats (Total: 10)
	Contact instructor or department for details.	

PSYC629C Clinical Laboratory; Adult Therapy Practicum

Credits: 1-3 Grading Method: Sat-Fail

Provides advanced supervised experience in the delivery and supervision of mental health interventions targeted to individuals. Supervised work with clients is required.

0101	Lea Dougherty	Seats (Total: 10)
	Contact instructor or department for details.	

PSYC629D Clinical Laboratory; Child and Adolescent Therapy Practicum

Credits: 1-3 Grading Method: Sat-Fail

Provides advanced supervised experience in the delivery and supervision of mental health interventions targeted to individuals. Supervised work with clients is required.

0101	Mary Byrne	Seats (Total: 10)
	Contact instructor or department for details.	

PSYC638 **Externship in Professional Psychology**

Credits: 1-3 Grading Method: Sat-Fail

Approved appointment as an extern in a mental health setting.

For PSYC majors only.

0101	Lea Dougherty	Seats (Total: 20)
	Contact instructor or department for details.	
0201	Jonathan Mohr	Seats (Total: 25)
	Contact instructor or department for details.	

PSYC639 **Internship in Professional Psychology**

Credits: 1 Grading Method: Sat-Fail

This seminar combines involvement with a program approved appointment a an intern in a mental setting with a supervisory review of the training experience.

For PSYC majors only.

0101	Lea Dougherty	Seats (Total: 20)
	Contact instructor or department for details.	

PSYC643 **Ethical and Professional Issues in Clinical Psychology**

Credits: 3 Grading Method: Regular

Restriction: Permission of instructor; and must be in one of the following programs (Psychology (Master's); Psychology (Doctoral)). Credit only granted for: PSYC643 or PSYC719. Formerly: PSYC719.

An overview of the ethical and professional issues involved in psychological research, instruction, and practice, with special attention to advocacy and ethical decision making regarding a variety of primary, secondary, and tertiary clinical/community interventions.

0101	Mary Byrne	Seats (Total: 20)
	W 1:00pm - 3:30pm	BPS 2114B

PCC1	Andrea Chisolm	Seats (Total: 35)
	Meets August 27, 2018 - November 16, 2018	
	Tu 6:00pm - 9:10pm	BPS 1140B
	Restricted to students in Clinical Psychological Science program.	

PSYC644 **Basic Foundation of Clinical Interventions**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of instructor; and must be in one of the following programs (Psychology (Master's); Psychology (Doctoral)).

General introduction to behavior theory and the basic behavioral principles that underlie behavior therapy. Provides an introduction to the philosophical, theoretical and empirical contributions of basic behavior analysis as they relate to behavior therapy, including examples of how behavior therapy is disconnected from its roots.

PCC1	Andrea Chisolm	Seats (Total: 40)
	Meets August 27, 2018 - November 16, 2018	
	Th 6:00pm - 9:10pm	BPS 1140B
	Restricted to students in Clinical Psychological Science program.	

PSYC651 **Writing and Critical Thinking**

Credits: 3 Grading Method: Regular

Restriction: Must be enrolled in and have completed 4 terms of the Clinical Psychological Science MPS program.

A capstone experience to integrate knowledge learned throughout the program and improve critical thinking and research writing skills. This will be done through the production of a major research paper in an area relevant to the current or future career goals of the student and by emphasizing critical thinking skills.

PCC1	Michael Meinzer	Seats (Total: 35)
	Meets August 27, 2018 - November 16, 2018	
	Th 6:00pm - 9:10pm	BPS 1236
	Restricted to students in Clinical Psychological Science program.	

PCC2	Jack Blanchard	Seats (Total: 40)
	Meets August 27, 2018 - November 16, 2018	
	Th 6:00pm - 9:10pm	Location: TBA
	Restricted to students in Clinical Psychological Science program.	

PSYC652 **Analytical Thinking: Statistical Methods at Work**

Credits: 3 Grading Method: Regular, Audit

Additional information: Students will be taught how to conduct analyses in R, SPSS, SAS, Stata, and excel; students are encouraged to practice analyses on at least two of these programs.

Personal and organizational growth begins with asking and answering great questions. Correspondingly, this course begins with demonstrations of how to translate business questions into research questions. Statistical methods used to answer business questions are taught first conceptually, then computationally using statistical software. This course emphasizes interpreting results, the regression model, and other issues salient to business research, such as handling large datasets. Students will be provided with a simulated dataset that they will use in learning how to frame and answer business questions using the techniques covered in this course. At the conclusion of this course, students will be required to provide an executive-level presentation on the business question, their findings, and resulting implications.

Restricted to students in Industrial/Organizational Psychology.

Click here for program information.

PYP1	Juliet Aiken	Seats (Total: 40)
	Meets August 27, 2018 - November 16, 2018	
	M 4:30pm - 8:30pm Class time/details on ELMs	Location: TBA ONLINE
	Click here for more course information.	

PSYC660 **Performance Management, Compensation, and Benefits**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in the Master of Professional Studies in Industrial/Organizational Psychology Program.

This course draws together content on organizational behavior, selection, assessment, development, employee relations, and compensation, among other topics. Students in this course will learn about how to align organizational reward systems, including selection, development, performance appraisal, feedback, and compensation systems. This course will pull from current organizational research and theory on issues ranging from work motivation, employee retention, and feedback processes to issues of organizational strategy and culture.

Restricted to students in Industrial/Organizational Psychology.

Click here for program information.

PYP1	Kenneth Yusko	Seats (Total: 40)
	Meets August 27, 2018 - November 16, 2018	
	M 4:30pm - 8:30pm	ESJ 1215
	Class time/details on ELMs	ONLINE

PSYC661 **Practicum in IO Psychology**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: PSYC603, PSYC652, PSYC653, and PSYC654. Restriction: Must be in the Master of Professional Studies in Industrial/Organizational Psychology Program.

In this practicum, students will work on IO-related tasks in an organization and will have the opportunity to apply what they have learned in class to real-world problems. Students will write a reflection paper reviewing what skills they have applied - and developed - while completing this practicum.

Restricted to students in Industrial/Organizational Psychology.

Click here for program information.

PYP1	Juliet Aiken	Seats (Total: 40)
	Meets August 27, 2018 - November 16, 2018	
	M 4:30pm - 8:30pm	BPS 1140B
	Class time/details on ELMs	ONLINE

PSYC692 **Assessment in Counseling Psychology I**

Credits: 3 Grading Method: Regular

Prerequisite: PSYC680. Credit only granted for: PSYC692 or PSYC721. Formerly: PSYC721.

Broad introduction to the construction of psychological tests and measures, and experience in test interpretation, with consideration of historical, legal, ethical, and cultural issues surrounding the assessment process.

0101	Jonathan Mohr	Seats (Total: 15)
	W 12:00pm - 3:00pm	BPS 1103

PSYC695 **Ethical and Professional Issues in Counseling Psychology**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in the Counseling Psychology program. Also offered as: EDCP695. Credit only granted for: EDCP669, EDCP688, EDCP695, PSYC688, or PSYC695. Formerly: EDCP669 and EDCP688.

Exploration of ethical and professional issues in Counseling Psychology

0101	Beth Richie	Seats (Total: 15)
	W 9:30am - 12:30pm	BPS 2145

PSYC698 **Advanced Didactic-Practicum in Counseling Psychology**

(Perm req)

Credits: 3 Grading Method: Sat-Fail

In depth examination of approaches to or theories about intervention, and supervised experience in the application of those approaches or theories. Each practicum focuses on a particular approach, e.g, psychodynamic, cognitive-behavioral, cross-cultural.

0101	Kristen Pinto-Coelho	Seats (Total: 15)
	Tu 9:00am - 12:00pm	Location: TBA

PSYC700 **Theories and Strategies of Counseling Psychology**

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Permission of BSOS-Psychology department. Credit only granted for: PSYC700 or PSYC711. Formerly: PSYC711.

Introduction to the professional field, examination of pertinent scientific and philosophical backgrounds, and survey of the major theories, principles, and training models in counseling. Correlated laboratory analogue experiences in dyadic and group interrelationships.

0101	Clara Hill	Seats (Total: 8)
	M 2:00pm - 4:50pm	BPS 2145

PSYC707 **Theory of Decision and Choice**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: PSYC602. Restriction: Permission of instructor.

A study of algebraic and probabilistic models for decision and choice behavior, and related experimental procedures. Topics include: measurement of preference, subjective utility models for certain and uncertain outcomes, normative strategies, decision making styles, and group decision making.

0101	James Grand	Seats (Total: 15)
	Tu 2:00pm - 4:30pm	BPS 1140A

PSYC757 **Developmental Cognitive Neuroscience**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in one of the following programs (Psychology (Master's); Psychology (Doctoral); Neurosciences and Cognitive Sciences (Doctoral)) ; or permission of BSOS-Psychology department. Credit only granted for: NACS728D or PSYC757.

Developmental cognitive neuroscience investigates the relations between neural and cognitive development. This course provides an overview of current research questions, methodologies and findings related to neurocognitive development in human infants and children, the role of developmental plasticity, and atypical outcomes, such as those observed in neurodevelopmental disorders.

0101	Tracy Riggins	Seats (Total: 20)
	M 9:30am - 12:00pm	BPS 1103

PSYC789 **Special Research Problems**

Credits: 1-4 Grading Method: Regular, Audit

Contact department for information to register for this course.

PSYC799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

For PSYC majors only. For all non-psychology graduate students, written permission of the instructor and department is required.

Contact department for information to register for this course.

PSYC888A **Research Methods in Psychology; Developmental Seminar**

Credits: 1-3 Grading Method: Regular, Audit

0101	Jonathan Beier W 11:00am - 12:15pm	Seats (Total: 10) BPS 1228

PSYC889 **Research Methods in Psychology; Cognitive and Neural Systems Seminar**

Credits: 1 Grading Method: Regular, Audit

0201	Matthew Roesch W 10:00am - 10:50am	Seats (Total: 10) BPS 0283

PSYC898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

PSYC899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

For PSYC majors only. For all non-psychology graduate students, written permission of the instructor and department is required.

Contact department for information to register for this course.

RDEV Real Estate Development Fall 2018

RDEV250 **People, Planet, and Profit: Building Sustainable Places**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Also offered as: ARCH271. Credit only granted for: ARCH271 or RDEV250.

An introduction to building communities, commonly referred to as real estate development and involving multiple professions and disciplines, including Architecture and Urban Design, Community Planning, Historic Preservation, Landscape Architecture, Civil Engineering, Law, Finance and Accounting, that have to come together to build more sustainable places for the future by emphasizing the quadruple bottom line of: (1) financial viability, (2)environmental sensitivity, (3) social/cultural responsibility and (4) sustainable design. The course will provide students with an understanding of the fundamental principles and processes of these disciplines and examine the intersections between them. Students will learn through field studies, lecture, discussion, presentations and interactions with multiple professionals

0101	Heidi Bulich TuTh 3:30pm - 4:45pm	Seats (Total: 111) ESJ 1224

RDEV270 **Tax and Accounting for Real Estate Development**

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Permission of ARCH-Real Estate Development; and must not be in a major in the Robert H. Smith School of Business; and must not have completed BMGT210, BMGT220, or BMGT221.

An understanding of key tax and accounting principles and how they impact real estate development for students in the minor in real estate development is the purpose of this course. This course is geared for science, arts and humanities students who otherwise in their major would not take an accounting course as part of their major.

0101	Leslie Mostow Tu 7:00pm - 9:40pm	Seats (Total: 25) ARC 1101

RDEV350 **Real Estate Development: Introduction to Principles, Process, and Practice**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: RDEV250 or ARCH271. Restriction: Must be enrolled in the RDEV Minor; and permission of ARCH-School of Architecture, Planning, & Preservation. Credit only granted for: RDEV150 or RDEV350. Formerly: RDEV150.

An introduction to the basic principles of real estate development: How real estate and communities get built and how value is created. The emphasis is on entrepreneurship and an experiential learning approach to the entrepreneurial real estate development process, principles, and practice.

0101	Marcus Ervin M 7:00pm - 9:40pm	Seats (Total: 30) ARC 1101
0102	Thomas Kaufman M 7:00pm - 9:40pm	Seats (Total: 25) ARC 1103

RDEV450 **Foundations of Real Estate Finance and Investment**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Must have completed RDEV270 or an approved accounting course with a grade of C- or better; and minimum grade of C- in RDEV350. Restriction: Must be enrolled in RDEV Minor; and permission of ARCH-School of Architecture, Planning, & Preservation.

Real Estate Finance and Investment addresses how real estate value is established, the fundamental foundations of the time value of money, as well as more real estate specific applications of return on investment, net operating income, the components of a real estate sources and uses statement, sources of real estate equity and debt financing, commonly used debt ratios and equity returns in real estate, as well as concepts of sensitivity analysis and exit strategies.

0101	John Kirkland	Seats (Total: 25)
	W 7:00pm - 9:40pm	ARC 1103

RDEV600 **Principles and Practice of Real Property Development**

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Permission of ARCH-Real Estate Development. Credit only granted for: RDEV688T or RDEV600. Formerly: RDEV688T.

An introduction to basic principles of real estate development: How real estate and communities get built and how value is created. The emphasis is on entrepreneurship and an experiential learning approach to the entrepreneurial real estate development process, principles, and practice.

0101	Tanya Bansal	Seats (Total: 22)
	M 7:00pm - 9:40pm	ARC 1123

RDEV603 **Introduction to Real Property Finance**

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Permission of the Department. Credit only granted for: RDEV688Z, RDEV689V, or RDEV603. Formerly: RDEV688Z and RDEV689V.

Introduction to Real Property Finance addresses how real estate value is established, the fundamental foundations of the time value of money, as well as more real estate specific applications of return on investment, net operating income, the components of a real estate sources and uses statement, sources of real estate equity and debt financing, commonly used debt ratios and equity returns in real estate, as well as concepts of sensitivity analysis and exit strategies.

0101	Thomas Dwyer W 7:00pm - 9:40pm	Seats (Total: 20) ARC 1105

RDEV605 **Tax and Accounting for Real Property Developers**

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Permission of ARCH-Real Estate Development. Credit only granted for: RDEV688K or RDEV605. Formerly: RDEV688K.

This course is designed to familiarize students with taxation and accounting as it pertains to real estate development.

0101	Leslie Mostow Tu 7:00pm - 9:40pm	Seats (Total: 28) ASY 3219

RDEV620 **Market Analysis for Real Property Development**

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Permission of ARCH-Real Estate Development. Credit only granted for: RDEV689M or RDEV620. Formerly: RDEV689M.

Designed to introduce and familiarize students with completing market analysis for real property projects. Includes a broad range of land uses including for-rent and for-sale residential, retail, office, and hospitality. Covers all aspects of completing a market analysis from the site visit to recommendations, and all the steps in-between. Examines how various real estate practitioners, such as developers, builders, investors, landowners, and public officials, utilize market studies.

0101	Melina Duggal M 7:00pm - 9:40pm	Seats (Total: 28) ASY 3219

RDEV630 **Real Property Finance and Investment**

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Permission of ARCH-Real Estate Development. Credit only granted for: RDEV630, RDEV688B, or URSP664. Formerly: RDEV688B.

This course is designed to introduce students who have experience in real estate finance or have taken an introductory course in real estate finance and investment to move to this intermediate course that addresses foundational concepts of commercial real estate finance and the measures used in analyzing and evaluating real estate projects. Quantitative analysis and financial modeling comprise the main focus.

0101	Stephen Alfandre Tu 7:00pm - 9:40pm	Seats (Total: 20) ASY 3215

RDEV635 **Capital Markets and Real Estate Investments for Developers**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: RDEV630, URSP664, or RDEV688. Restriction: Must be in Real Estate Development (Master's) program; or permission of ARCH-Real Estate Development. Credit only granted for: RDEV635 or RDEV688F. Formerly: RDEV688F.

An advanced course in real estate finance focusing on capital markets and complex financing mechanism in the public and private markets for raising capital for development of public, private and public/private projects.

0101	Kathleen Miles, Maria Day-Marshall Th 7:00pm - 9:40pm	Seats (Total: 19) ARC 1103

RDEV640 **Principles of Urban Design for Real Property Developers**

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Permission of ARCH-Real Estate Development. Credit only granted for: RDEV688J or RDEV640. Formerly: RDEV688J.

Introduces students to the design issues associated with development of the basic real property asset classes (office, retail, and residential) and the context driven forces that shape these different development types. Also introduces non-design students to the principles of visual literacy and the capacity of different property to support development in the effort to enhance a community.

0101	Robert McClennan Tu 7:00pm - 9:40pm	Seats (Total: 25) ARC 1103

RDEV660 **Commercial Leasing for Real Property Developers**

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Permission of ARCH-Real Estate Development. Credit only granted for: RDEV688L or RDEV660. Formerly: RDEV688L.

Provides students with a hands-on look at commercial and real estate leases, lease provisions, and current market activity, a key factor in determining when and whether to proceed with developing a commercial property.

0101	Martha Naughten W 7:00pm - 9:40pm	Seats (Total: 25) ARC 1101

RDEV670 **Negotiating Agreements & Resolving Conflicts when Developing Real Property**

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Permission of ARCH-Real Estate Development. Credit only granted for: RDEV688E or RDEV670. Formerly: RDEV688E.

Designed to develop students' negotiation and leadership skills for managing differences between individuals and groups while in the process of developing and operating real property. Includes a blend of skill-building exercises and theory discussions about the behavior of individuals to understand negotiation dynamics.

0101	Ronald McDonald M 7:00pm - 9:40pm	Seats (Total: 15) ARC 1127

RDEV689B **Current Topics in Real Estate Development; Affordable Housing Principles**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Explores a focused aspect in any of the five major phases of real estat development: planning, finance, law, design, construction, or management.

0101	Instructor: TBA Th 7:00pm - 9:40pm	Seats (Total: 15) ARC 1123

RDEV689Y **Current Topics in Real Estate Development; Guided Real Estate Development Project**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Explores a focused aspect in any of the five major phases of real estat development: planning, finance, law, design, construction, or management.

Prerequisite: Permission of the department.

0101	Margaret McFarland Contact instructor or department for details.	Seats (Total: 10)

RDEV690 **Capstone Project: Real Property Feasibility Study**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Completion of at least 7 RDEV courses. Restriction: Permission of ARCH-Real Estate Development. Credit only granted for: RDEV688I or RDEV690. Formerly: RDEV688I.

The capstone course is designed to provide students with an opportunity to apply acquired classroom knowledge to real world conditions. Each student in the class will work separately to create a development proposal and feasibility study for an assigned property. For students doing a feasibility study of a development the study will address at least market analysis, entitlement process, construction, and financing for the project.

0101	Tanya Bansal, Maria Day-Marshall Tu 7:00pm - 9:40pm	Seats (Total: 10) ARC 1127	
0102	Tanya Bansal, Maria Day-Marshall Tu 7:00pm - 9:40pm	Seats (Total: 10) ARC 1125	
0103	Maria Day-Marshall, Tanya Bansal Tu 7:00pm - 9:40pm	Seats (Total: 10) ARC 1123	
0104	Maria Day-Marshall, Tanya Bansal Tu 7:00pm - 9:40pm	Seats (Total: 10) Location: TBA	
0105	Tanya Bansal, Maria Day-Marshall Tu 7:00pm - 9:40pm	Seats (Total: 10) Location: TBA	

RELS Religious Studies Fall 2018

RELS120 Islamic Civilization

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH, D | General Education: DSHU

Also offered as: HIST120. Credit only granted for: HIST120 or RELS120.

Introduction to society and culture in the Middle East since the advent of Islam: as a personal and communal faith; as artistic and literary highlights of intellectual and cultural life; and as the interplay between politics and religion under the major Islamic regimes.

0101	Antoine Borrut TuTh 9:30am - 10:20am Th 11:00am - 11:50am	Seats (Total: 20) KEY 0106 TLF 1103	 Discussion
0102	Antoine Borrut TuTh 9:30am - 10:20am F 10:00am - 10:50am	Seats (Total: 20) KEY 0106 KEY 0100	 Discussion

0103	Antoine Borrut TuTh 9:30am - 10:20am F 11:00am - 11:50am	Seats (Total: 20) KEY 0106 KEY 0100	Discussion
0104	Antoine Borrut TuTh 9:30am - 10:20am F 2:00pm - 2:50pm	Seats (Total: 20) KEY 0106 KEY 0100	Discussion

RELS170 **Greek and Roman Mythology**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HL | General Education: DSHU

Also offered as: CLAS170. Credit only granted for: CLAS170 or RELS170. Additional information: This course cannot be taken for language credit.

An introduction to the mythology of ancient Greece and Rome. This cours is particularly recommended for students planning to major in foreign languages, English, history, the fine arts, or journalism. Taught in English.

0101	Lillian Doherty MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 26) MMH 1400 PLS 1113	Discussion
0102	Lillian Doherty MW 10:00am - 10:50am Th 11:00am - 11:50am	Seats (Total: 26) MMH 1400 PLS 1117	Discussion
0103	Lillian Doherty MW 10:00am - 10:50am Th 11:00am - 11:50am	Seats (Total: 26) MMH 1400 PLS 1111	Discussion
0104	Lillian Doherty MW 10:00am - 10:50am Th 12:30pm - 1:20pm	Seats (Total: 26) MMH 1400 MTH 1308	Discussion
0105	Lillian Doherty MW 10:00am - 10:50am Th 12:30pm - 1:20pm	Seats (Total: 26) MMH 1400 MTH 0103	Discussion
0201	Lillian Doherty MW 11:00am - 11:50am F 1:00pm - 1:50pm	Seats (Total: 26) MMH 1400 PLS 1115	Discussion

0203	Lillian Doherty MW 11:00am - 11:50am Th 9:30am - 10:20am	Seats (Total: 26) MMH 1400 MTH 0403	Discussion
0205	Lillian Doherty MW 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 26) MMH 1400 CHM 0124	Discussion

RELS219D **Special Topics in Religious Studies; Why the Jews? Historical and Cultural Investigations**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics in Religious Studies

Also offered as HIST287 and JWST233. Credit only granted for HIST287, JWST233, or RELS219D.

0101	Bernard Cooperman TuTh 2:00pm - 2:50pm F 10:00am - 10:50am	Seats (Total: 20) SQH 1120 BPS 1228	Discussion
0102	Bernard Cooperman TuTh 2:00pm - 2:50pm F 11:00am - 11:50am	Seats (Total: 20) SQH 1120 TLF 1103	Discussion
0103	Bernard Cooperman TuTh 2:00pm - 2:50pm F 1:00pm - 1:50pm	Seats (Total: 20) SQH 1120 TLF 1103	Discussion
0104	Bernard Cooperman TuTh 2:00pm - 2:50pm F 2:00pm - 2:50pm	Seats (Total: 20) SQH 1120 TLF 1103	Discussion

RELS219E **Special Topics in Religious Studies; Visual Cultures of Islam**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics in Religious Studies

Also offered as AAST298B, ARTH389L, PERS298E, and HIST219E. Credit only granted for HIST219E, AAST298B, ARTH389L, PERS298E, or RELS219E. Visual Cultures of Islam is part of the Digital Islamic Studies Curriculum (digitalislam.umich.edu). This course is taught by renowned University of Michigan instructor, Christiane Gruber, an expert in the field of Islamic Art, and digitally shared with the University of Maryland. In this course, Professor Gruber explores definitions of "Islamic" art and investigates various visual cultures of Islam around the world from the 7th to the 20th century. The course meets twice a week in real time using video conferencing technology and students are able to enroll directly at Maryland for course credit.

0101	Instructor: TBA	Seats (Total: 10)
	MW 11:30am - 1:00pm	HJP 3120

RELS219Z **Special Topics in Religious Studies; The Devil in the Western Imagination**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics in Religious Studies

Also offered as HIST219Z. Credit granted for HIST219Z or RELS219Z. Students take an interdisciplinary look at how the Devil has been thought of and portrayed over time, from the Bronze Age Middle East to the present.

0101	Andrew Kellett	Seats (Total: 40)
	Class time/details on ELMs	ONLINE

RELS269 **Special Topics in Study Abroad II**

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

RELS269G **Special Topics in Study Abroad II; From Asoka to Gandhi: Buddhism and Hinduism in Contemporary Society**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

RELS289D **God Wills It! The Crusades in Medieval and Modern Perspective**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SH General Education: DSHS, SCIS

Also offered as: HIST133. Credit only granted for: HIST133, HIST289D, or RELS289D.

0101	Janna Bianchini MW 11:00am - 11:50am W 12:00pm - 12:50pm	Seats (Total: 20) KEY 0106 TLF 1101	Discussion
0102	Janna Bianchini MW 11:00am - 11:50am W 1:00pm - 1:50pm	Seats (Total: 20) KEY 0106 TLF 1101	Discussion
0103	Janna Bianchini MW 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 20) KEY 0106 TLF 1101	Discussion
0104	Janna Bianchini MW 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 20) KEY 0106 TLF 1101	Discussion

RELS289J **New Explorations in Religious Studies; Jerusalem in Antiquities**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU, DVUP, SCIS

Investigation of critical and innovative responses in Religious Studies Although the topic will vary, the course will encourage intellectual exploration by students of fundamental problems and critical methods.

Also offered as JWST289J. Credit will be granted for JWST289J or RELS289J. The questions of sacred space through the topic of Jerusalem are explored. The study of Jerusalem's history as a holy city reveals the many ways by which sacred space is constructed. It will also examine the development of places that continue to hold great sanctity in Judaism (the Western Wall), Christianity (the Church of the Holy Sepulchre and the Mount of Olives), and Islam (the Dome of the Rock and the Al-Aqsa Mosque on the Haram ash-Sharif).

0101	Matthew Suriano MW 11:00am - 11:50am W 1:00pm - 1:50pm	Seats (Total: 20) ASY 2309 ASY 3217	Discussion
0102	Matthew Suriano MW 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 20) ASY 2309 WDS 1130	Discussion

0103	Matthew Suriano MW 11:00am - 11:50am F 12:00pm - 12:50pm	Seats (Total: 20) ASY 2309 WDS 0104	 Discussion
0104	Matthew Suriano MW 11:00am - 11:50am W 2:00pm - 2:50pm	Seats (Total: 20) ASY 2309 ASY 3207	 Discussion

RELS289M **Jesus, Mani, and Muhammad: The Dynamics of New Religious Movements**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO, D | General Education: DSHU, DVUP, SCIS

Also offered as HIST289T. Credit Granted for RELS289M or HIST289T.

0101	Elizabeth Conner MW 1:00pm - 1:50pm W 2:00pm - 2:50pm	Seats (Total: 20) TYD 2106 KEY 0121	 Discussion
0102	Elizabeth Conner MW 1:00pm - 1:50pm F 11:00am - 11:50am	Seats (Total: 20) TYD 2106 KEY 0124	 Discussion
0103	Elizabeth Conner MW 1:00pm - 1:50pm F 1:00pm - 1:50pm	Seats (Total: 20) TYD 2106 JMZ 1117	 Discussion
0104	Elizabeth Conner MW 1:00pm - 1:50pm F 2:00pm - 2:50pm	Seats (Total: 20) TYD 2106 JMZ 1117	 Discussion

RELS319D **Special Topics in Religious Studies; Jews and Judaism in Antiquity II: First through Seventh Century**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics in the study of religious history, literature, culture, and thought.

Also offered as HIST371 and JWST326. Credit only granted for HIST371, JWST326, or RELS319D.

0101	Hayim Lapin MW 2:00pm - 3:15pm	Seats (Total: 30) KEY 0100	

RELS341 **Europe in the High Middle Ages: 1000-1500**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Also offered as: HIST331. Credit only granted for: HIST331 or RELS341.

Medieval civilization in the 11th through 15th centuries. Emphasis on cultural and political developments of the high Middle Ages with study of the principal sources of medieval thought and learning, art and architecture, and political theory prior to the Renaissance.

0101	Janna Bianchini	Seats (Total: 40)
	MW 2:00pm - 3:15pm	KEY 0126

RELS342 **Renaissance Europe**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: HIST112 or HIST111; or permission of instructor required. Also offered as: HIST332. Credit only granted for: HIST332 or RELS342.

Intellectual developments in Italy and Northern Europe from 1300 to 1550 and their influence on the arts and religion; social and economics trends, including the rise of the commercial economy in cities; the family and the role of women in society; expansion of Europe overseas and the beginnings of colonization; emergence of the state and consequent changes in political theory.

0101	Stefano Villani	Seats (Total: 40)
	TuTh 2:00pm - 3:15pm	KEY 0116

RELS369C **Special Topics in Study Abroad III; Between Tolerance and Conflict: Jewish, Christians and Muslims in the Iberian Peninsula**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

RELS369R **Special Topics in Study Abroad III; Christianity and the Roman Empire (100-425CE)**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

RELS499 **Independent Study in Religious Studies**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

An advanced independent research project for qualified students, supervised by a faculty member, on a topic not ordinarily covered in available courses.

Contact department for information to register for this course.

RUSS Russian Fall 2018

RUSS101 **Intensive Elementary Russian I**

Credits: 6

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not be a native/fluent speaker of Russian. Credit only granted for: RUSS101 or (RUSS111 and RUSS112).

This intensive first-year course is intended to develop the four skills: reading, writing, listening and speaking with an emphasis on communicative competence.

This course has been put on a timed release system. Seats will be opended gradually by the registrar's office, to a total of 15 seats per section. If the course is full, please put yourself on the waitlist and contact Dr. Cynthia Martin (cmartin@umd.edu) for permission to enroll.

0101	Inna Hardman MWF 10:00am - 10:50am TuTh 9:30am - 10:45am	Seats (Total: 18) JMZ 2125 JMZ 2125
0201	Inna Hardman MWF 11:00am - 11:50am TuTh 11:00am - 12:15pm	Seats (Total: 18) JMZ 2125 JMZ 2125

RUSS201 **Intermediate Russian I**

Credits: 5

Grading Method: Regular, Pass-Fail, Audit

CORE: HO

Prerequisite: RUSS102 or RUSS114; or must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not be a native/fluent speaker of Russian.

Continued activation and expansion of skills and knowledge acquired in an elementary Russian course with the goal of communicative competence.

If the course is full, please put yourself on the waitlist and contact Dr. Cynthia Martin (cmartin@umd.edu) for permission to enroll.

0101	Zhanna Gerus-Vernola	Seats (Total: 15)
	MWF 10:00am - 10:50am	JMZ 2122
	TuTh 10:00am - 10:50am	JMZ 2122

RUSS289I **The Power of the Word: Freedom of Speech in the U.S. and Russia**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO | General Education: DSHU, SCIS

Restricted to students in Carillon Communities.

0101	Cynthia Martin, Liudmila Sharaya	Seats (Total: 40)
	TuTh 9:30am - 10:45am	TYD 1101
	Restricted to students in the Carillon living-learning community.	

RUSS301 **Advanced Russian I**

Credits: 3 | Grading Method: Regular, Audit

Prerequisite: RUSS202; or students who have taken courses with comparable content may contact the department. Restriction: Must not be a native/fluent speaker of Russian.

Advanced training in written Russian communicative structures.

0101	Zhanna Gerus-Vernola	Seats (Total: 15)
	TuTh 11:00am - 12:15pm	JMZ 2122

RUSS321 **Survey of Russian Literature I**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: RUSS202; or students who have taken courses with comparable content may contact the department.

The first half of a survey of Russian literature.

0101	Elena Lozinsky	Seats (Total: 15)
	TuTh 2:00pm - 3:15pm	JMZ 0125

RUSS386 **Experiential Learning**

(Perm req) | Credits: 3-6 | Grading Method: Regular, Pass-Fail

Restriction: Junior standing or higher; and permission of ARHU-School of Languages, Literatures, and Cultures department.

Contact the department to obtain section numbers.

Contact department for information to register for this course.

RUSS398F **Selected Topics in Russian Language and Literature; Soviet Cinema and Culture after Stalin**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Also offered as FILM329E. Credit only granted for RUSS398F or FILM329E.

0101	Elizabeth Papazian	Seats (Total: 30)
	MW 12:00pm - 1:50pm	HBK 0302H

RUSS401 **Advanced Russian Composition**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: RUSS302; or students who have taken courses with comparable content may contact the department. Restriction: Not open to native speakers of Russian.

Approaches to argumentation, organization of information, contextualize grammar, appropriateness of lexical choice, genre, and register.

0101	Cynthia Martin	Seats (Total: 15)
	TuTh 11:00am - 12:15pm	JMZ 3122

RUSS405 **Russian-English Translation I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in RUSS302.

Introduction to the principles of translation of a particular genre, and is typically diplomatic, business, or literary.

0101	Elena Lozinsky	Seats (Total: 14)
	TuTh 3:30pm - 4:45pm	JMZ 1103

RUSS499 **Independent Study in Russian**

(Perm req) Credits: 1-3 Grading Method: Regular

Independent study under faculty supervision.

Contact department for information to register for this course.

RUSS798 **Independent Study**

Credits: 1-3 Grading Method: Regular, Audit

Contact department for information to register for this course.

RUSS799 **Thesis Research**

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

SLAA Second Language Acquisition and Application — Fall 2018

SLAA610 **Research and Theories in Second Language Acquisition**

Credits: 3 Grading Method: Regular, Audit

Introduction to current theories and research findings Second Language Acquisition (SLA).

0101	Michael Long	Seats (Total: 10)
	Tu 2:00pm - 4:30pm	JMZ 0205

SLAA611 **Fundamentals of Foreign Language Acquisition and Instruction**

Credits: 3 Grading Method: Regular, Audit

Introduction to theoretical and practical issues relevant to foreign language learning, language acquisition, and curriculum construction.

0101	Robert De Keyser	Seats (Total: 10)
	W 2:00pm - 4:30pm	JMZ 1123

SLAA630 **Second Language Testing**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: SLAA610; or permission of ARHU-School of Languages, Literatures, and Cultures department.

An introduction to basic concepts in the assessment of second language knowledge. Issues of reliability, dependability, construct validity, utility, and washback on instruction are examined.

0101	Steven Ross	Seats (Total: 10)
	F 2:00pm - 4:30pm	JMZ 1122

SLAA649R **Special Topics in Second Language Acquisition; Research Critique**

Credits: 3 Grading Method: Regular, Audit

Current topics in research in second language acquisition.

0101	Michael Long	Seats (Total: 10)
	Th 5:00pm - 7:30pm	JMZ 2122

SLAA650 **Second Language Analysis**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: SLAA610; or permission of ARHU-School of Languages, Literatures, and Cultures department.

An overview of the field of linguistics with a particular attention to its application in SLA studies, introduces students to the basic concepts and skills related to the scientific study of language, and provides them with opportunities to apply these concepts and skills in the analysis of language. It covers topics such as phonetics, phonology, morphology, syntax, semantics, language acquisition, and language use.

0101	Nan Jiang	Seats (Total: 10)
	Tu 5:00pm - 7:30pm	JMZ 1122

SLAA719 **Second Language Acquisition and Application Internship**

Credits: 3 Grading Method: Regular, Audit

Internship at a site to be determined. Topics may include heritage language learning, immersion education, testing and assessment, translation and interpretation, and national language planning and policy.

Contact department for information to register for this course.

SLAA749I **Special Topics in Second Language Learning; Practice in Second Language Learning**

Credits: 3

Grading Method: Regular, Audit

Current topics in research on Second Language Learning.

0101	Robert De Keyser	Seats (Total: 10)
	M 2:00pm - 4:30pm	JMZ 1123

SLAA749P **Special Topics in Second Language Learning; Bilingual Language Processing**

Credits: 3

Grading Method: Regular, Audit

Current topics in research on Second Language Learning.

Pending department chair approval for non-standard meeting time, Thursday, 1-3:30pm.

0101	Nan Jiang	Seats (Total: 10)
	Th 2:00pm - 4:30pm	JMZ 2125

SLAA749V **Special Topics in Second Language Learning; The Mental Lexicon**

Credits: 3

Grading Method: Regular, Audit

Current topics in research on Second Language Learning.

0101	Kira Gor	Seats (Total: 10)
	W 5:00pm - 7:30pm	JMZ 3203

SLAA779 **Directed Research in Second Language Acquisition and Application**

Credits: 1-3

Grading Method: Regular, Audit

Directed independent research in Second Language Acquisition or Application. In this capstone project, students engage in independent research under faculty direction.

Contact department for information to register for this course.

SLAA798 **Master's Independent Study**

Credits: 1-3

Grading Method: Regular, Audit

Contact department for information to register for this course.

SLAA799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

SLAA888 **Doctoral Independent Study**

Credits: 1-3 Grading Method: Regular, Audit

Individual instruction course.

Contact department for information to register for this course.

SLAA898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

SLAA899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

SLLC School of Languages, Literatures and Cultures Fall 2018

SLLC108V **Beg Less Commonly Taught Language I; Vietnamese I**

Credits: 4 Grading Method: Regular

Study of any of the less commonly taught languages at the elementary level. Speaking, listening, reading, and writing a less commonly taught language. Development of an emphasis on oral proficiency skills.

First year Vietnamese is a Big Ten Academic Alliance Course-Share course. The instructor is at Michigan State University, but you enroll and receive credit for it at Maryland. You will also need to be entered into the Michigan State University course management system Desire to Learn (D2L). For more information about this course, including textbook information and instructions on enrolling in D2L, please see https://goo.gl/yoEbEm. Heritage speakers and those with prior knowledge of Vietnamese need to contact the Course Coordinator at MSU before enrolling in the course to determine appropriate placement, Ms. Steider: steider@msu.edu, 517-355-5105.

0101	Instructor: TBA	Seats (Total: 10)
	Class time/details on ELMs	ONLINE

SLLC109J **Beg Less Commonly Taught Language II; Japanese**

Credits: 3 Grading Method: Regular

Study of any of the less commonly taught languages at the elementary level, as a continuation of SLLC108 (in the same language). Speaking, listening, reading, and writing a less commonly taught language. Development of an emphasis on oral proficiency skills.

Prerequisite: JAPN101 or FLPA placement in JAPN102. Credit only granted for SLLC109J, JAPN106, or JAPN102. Equivalent of first half of JAPN102.

0101	Etsuko Yamakita	Seats (Total: 10)
	MWF 12:00pm - 12:50pm	JMZ 1103

SLLC169B **Special Topics in Study Abroad I; Elementary Basque I**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SLLC169C **Special Topics in Study Abroad I; Elementary Basque II**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SLLC169D **Special Topics in Study Abroad I; Great Czech Writers**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SLLC169L **Special Topics in Study Abroad I; Basque Language and Culture**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SLLC208V **Intermediate Less Commonly Taught Language I; Vietnamese I**

Credits: 4 Grading Method: Regular

Intermediate-level work on speaking, reading, and writing a less commonly taught language. Continued development of oral proficiency skills.

Second year Vietnamese is a Big Ten Academic Alliance Course-Share course. The instructor is at Michigan State University, but you enroll and receive credit for it at Maryland. You will need to be entered into the Michigan State University course management system Desire to Learn (D2L). For more information about this course, including textbook information and instructions on enrolling in D2L, please see https://goo.gl/yoEbEm. The course pre-requisite is SLLC109V. Heritage speakers and those with prior knowledge of Vietnamese need to contact the Course Coordinator at MSU before enrolling in the course to determine appropriate placement, Ms. Steider: steider@msu.edu, 517-355-5105.

0101	Instructor: TBA	Seats (Total: 10)
	Class time/details on ELMs	ONLINE

SLLC269B **Special Topics in Study Abroad II; Scandinavian Moods in Cinema**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SLLC269D **Special Topics in Study Abroad II; Catalan Language and Culture**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SLLC269X **Special Topics in Study Abroad II; Intermediate Basque I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SLLC269Y **Special Topics in Study Abroad II; Intermediate Basque II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SLLC299P **Special Topics in World Cultures; Behavior of the Rich and Powerful, Past and Present**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU

Topic to be announced when course is offered.

Through the study of XV and XVI century courtesy literature, in this course we will explore the various forms of behavior of the rich and powerful of the Italian Renaissance, an era that is much closer to our contemporary world than we might initially think, especially in regard to the way political and influential figures act in social situations and the image of themselves they present to others. What can we learn from observing and comparing the behavior of the rich and powerful of the past and present? In the public arena of these two worlds, does appearance matter more than truth?

FC01	Joseph Falvo	Seats (Total: 20)
	MW 6:00pm - 7:15pm	JMZ 2117
	Restricted to students in Freshmen Connection.	

SLLC299R **Special Topics in World Cultures; Elementary Italian I**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU

Topic to be announced when course is offered.

Contact department for information to register for this course.

SLLC299Z **Special Topics in World Cultures; Spanish Civilization and Culture**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU

Topic to be announced when course is offered.

Contact department for information to register for this course.

SLLC305 **Language, Identity and Diversity in the U.S.**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit , D | General Education: DSSP, DVUP

Introduces issues of linguistic diversity in the framework of the U.S. as a multilingual society. Special emphasis is placed on attitudes toward language diversity, specifically, how regional, social, generational, ethnic, racial and gender differences in language use contribute to notions of identity.

0101	Alene Moyer	Seats (Total: 25)
	MW 2:00pm - 3:15pm	JMZ 3205

SLLC309 **Language Partner Program**

(Perm req)

Credits: 1 Grading Method: Regular

For intermediate- to advanced-level language study. Conversations entirely in target language with native speaker.

Students must be available to meet on Monday, September 24, 2018 and Monday, December 3, 2018.

0101	Mehl Penrose **Meets September 24, 2018 - December 3, 2018** M 4:00pm - 5:50pm Contact instructor or department for details. *Arabic.*	Seats (Total: 10) Location: TBA
0102	Mehl Penrose **Meets September 24, 2018 - December 3, 2018** M 4:00pm - 5:50pm Contact instructor or department for details. *Chinese.*	Seats (Total: 10) Location: TBA
0103	Mehl Penrose **Meets September 24, 2018 - December 3, 2018** M 4:00pm - 5:50pm Contact instructor or department for details. *French.*	Seats (Total: 10) Location: TBA
0104	Mehl Penrose **Meets September 24, 2018 - December 3, 2018** M 4:00pm - 5:50pm Contact instructor or department for details. *German.*	Seats (Total: 10) Location: TBA
0105	Mehl Penrose **Meets September 24, 2018 - December 3, 2018** M 4:00pm - 5:50pm Contact instructor or department for details. *Italian.*	Seats (Total: 10) Location: TBA

0106	Mehl Penrose **Meets September 24, 2018 - December 3, 2018** M 4:00pm - 5:50pm Contact instructor or department for details. *Japanese.*	Seats (Total: 10) Location: TBA
0108	Mehl Penrose **Meets September 24, 2018 - December 3, 2018** M 4:00pm - 5:50pm Contact instructor or department for details. *Persian.*	Seats (Total: 10) Location: TBA
0109	Mehl Penrose **Meets September 24, 2018 - December 3, 2018** M 4:00pm - 5:50pm Contact instructor or department for details. *Russian.*	Seats (Total: 10) Location: TBA
0110	Mehl Penrose **Meets September 24, 2018 - December 3, 2018** M 4:00pm - 5:50pm Contact instructor or department for details. *Spanish.*	Seats (Total: 10) Location: TBA

SLLC369A **Special Topics in Study Abroad III; Alternative Culture, Literature, Music and Lifestyles**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SLLC369C **Special Topics in Study Abroad III; Czech Film**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SLLC369D **Special Topics in Study Abroad III; Art and Dictatorship**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SLLC369X **Special Topics in Study Abroad III; Advanced Basque I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SLLC369Y **Special Topics in Study Abroad III; Advanced Basque II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SLLC386 **Experiential Learning**

Credits: 3 Grading Method: Regular, Pass-Fail

Prerequisite: Learning Proposal approved by the Office of Experiential Learning Programs, faculty sponsor and the student's internship sponsor. Restriction: Junior standing or higher.

Contact department for information to register for this course.

SLLC601 **Teaching Foreign Languages in Higher Education**

(Perm req)

Credits: 1 Grading Method: Regular

Restriction: Permission of ARHU-School of Languages, Literatures, and Cultures department. Credit only granted for: SLLC601 or SPAN605. Formerly: SPAN605.

Methods and materials for teaching foreign languages in higher education.

0101	Alene Moyer	Seats (Total: 10)
	M 4:00pm - 4:50pm	JMZ 1122

SLLC789 **Master's Independent Study**

Credits: 1-3 Grading Method: Regular

Contact department for information to register for this course.

SOCY Sociology Fall 2018

SOCY100 Introduction to Sociology

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS

The fundamental concepts and principles of sociology. Includes consideration of culture, patterns of social interaction, norms, values, social institutions, stratification, and social change.

0101	Alex Parkhouse TuTh 9:30am - 10:45am	Seats (Total: 60) ASY 1213
0201	Lester Andrist TuTh 2:00pm - 3:15pm	Seats (Total: 60) ASY 2309
0301	Rodrigo Dominguez-Martinez MWF 9:00am - 9:50am	Seats (Total: 60) ASY 2309
0401	Robert Pernick MWF 11:00am - 11:50am	Seats (Total: 60) ASY 1213
0501	Carrie Clarady TuTh 12:30pm - 1:50pm	Seats (Total: 50) ARC 1103
0701	Carrie Clarady MW 3:00pm - 3:50pm Class time/details on ELMs	Seats (Total: 60) ASY 2309 ONLINE
FC01	Yu Guo MW 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 39) ASY 2309
FC02	Daniel Swann TuTh 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 39) ASY 1213

SOCY100H Introduction to Sociology

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS

The fundamental concepts and principles of sociology. Includes consideration of culture, patterns of social interaction, norms, values, social institutions, stratification, and social change.

Open to Honor students only.

0101	Amanda Dewey MWF 10:00am - 10:50am	Seats (Total: 25) ASY 3221

SOCY105 **Introduction to Contemporary Social Problems**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS

An examination of contemporary social problems through sociological perspectives; ways in which social problems are part of the organization of society; a detailed study of selected social problems including social conflict and social inequality.

0101	Daniel Swann TuTh 12:30pm - 1:45pm	Seats (Total: 60) ASY 1213
0201	Daniel Swann TuTh 3:30pm - 4:45pm	Seats (Total: 60) ASY 1213
0301	Jenelle Clark MWF 1:00pm - 1:50pm	Seats (Total: 60) ASY 1213
0401	David Strohecker MWF 12:00pm - 12:50pm	Seats (Total: 60) ASY 2309
FC01	Jenelle Clark MW 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 39) ASY 1213

SOCY110 **The Logic of Social Inquiry: An Introduction to Sociology and the Major**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Additional information: To be taken prior to, or in the first 30 credits after declaring sociology as a major.

Introduction to the logic of social science research; the integration of theory and methods in the development of sociological knowledge; basic sociological concepts; and departmental research streams. Required of all sociology majors.

0101	Lester Andrist MWF 9:00am - 9:50am	Seats (Total: 78) TWS 1310	

SOCY200 **Human Societies**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS, SCIS

A comparative, historical, interdisciplinary study of human socieities that focuses on the main components of human societies, how they are organized, how they change, and how they come to shape our collective social existence.

0101	Linda Moghadam, John Pease MW 2:00pm - 3:15pm F 9:00am - 9:50am	Seats (Total: 20) ASY 2203 ASY 3203	Discussion
0102	John Pease, Linda Moghadam MW 2:00pm - 3:15pm F 9:00am - 9:50am	Seats (Total: 20) ASY 2203 ASY 3207	Discussion
0103	Linda Moghadam, John Pease MW 2:00pm - 3:15pm F 10:00am - 10:50am	Seats (Total: 20) ASY 2203 JMZ 1122	Discussion
0104	John Pease, Linda Moghadam MW 2:00pm - 3:15pm F 11:00am - 11:50am	Seats (Total: 20) ASY 2203 EDU 1121	Discussion
0105	John Pease, Linda Moghadam MW 2:00pm - 3:15pm F 11:00am - 11:50am	Seats (Total: 20) ASY 2203 ASY 3211	Discussion
0106	John Pease, Linda Moghadam MW 2:00pm - 3:15pm F 1:00pm - 1:50pm	Seats (Total: 15) ASY 2203 ASY 3217	Discussion
0107	John Pease, Linda Moghadam MW 2:00pm - 3:15pm F 12:00pm - 12:50pm	Seats (Total: 15) ASY 2203 ARC 1125	Discussion

0108	John Pease, Linda Moghadam MW 2:00pm - 3:15pm F 1:00pm - 1:50pm	Seats (Total: 15) ASY 2203 ARC 1125	Discussion
0109	John Pease, Linda Moghadam MW 2:00pm - 3:15pm F 12:00pm - 12:50pm	Seats (Total: 15) ASY 2203 ASY 3215	Discussion

SOCY201 **Introductory Statistics for Sociology**

(Perm req)

Credits: 4 Grading Method: Regular, Pass-Fail, Audit General Education: FSAR

Prerequisite: SOCY100; and (MATH107 or MATH111). Or students who have taken courses with comparable content may contact the department. Restriction: Must not have completed STAT400, BMGT231, or ENEE324. Credit only granted for: BIOM301, BMGT230, CCJS200, ECON230, ECON321, EDMS451, GEOG306, GEOL351, GVPT422, INST314, JOUR405, PSYC200 or SOCY201. (These courses do not necessarily meet the same major requirements-check with your advisor to see which of these courses will count for your major).

Elementary descriptive and inferential statistics. Construction and percentaging of bivariate contingency tables; frequency distributions and graphic presentations; measures of central tendency and dispersion; parametric and nonparametric measures of association and correlation; regression; probability; hypothesis testing; the normal, binomial and chi-square distributions; point and interval estimates.

0101	Joan Kahn TuTh 11:00am - 12:15pm W 12:00pm - 1:50pm	Seats (Total: 20) ASY 2309 LEF 0231	Lab
0102	Joan Kahn TuTh 11:00am - 12:15pm W 10:00am - 11:50am	Seats (Total: 20) ASY 2309 LEF 0231	Lab
0103	Joan Kahn TuTh 11:00am - 12:15pm W 12:00pm - 1:50pm	Seats (Total: 20) ASY 2309 LEF 0229	Lab
0104	Joan Kahn TuTh 11:00am - 12:15pm W 2:00pm - 3:50pm	Seats (Total: 20) ASY 2309 LEF 0231	Lab

SOCY202 **Introduction to Research Methods in Sociology**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

Prerequisite: SOCY201.

The underlying logic, major strategies, specific techniques and skills of sociological research. Research design, measurement, data collection, sampling, field research experiments, surveys, index and scale construction, data analysis, interpretation and report writing.

0201	Alex Parkhouse TuTh 11:00am - 12:15pm F 10:00am - 11:50am	Seats (Total: 20) ASY 1213 LEF 0229	Lab
0202	Alex Parkhouse TuTh 11:00am - 12:15pm F 10:00am - 11:50am	Seats (Total: 20) ASY 1213 LEF 0231	Lab
0203	Alex Parkhouse TuTh 11:00am - 12:15pm F 12:00pm - 1:50pm	Seats (Total: 20) ASY 1213 LEF 0229	Lab
0204	Alex Parkhouse TuTh 11:00am - 12:15pm F 12:00pm - 1:50pm	Seats (Total: 20) ASY 1213 LEF 0231	Lab

SOCY203 **Sociological Theory**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SOCY100.

Development of the science of sociology; historical backgrounds; recent theories of society. Required of all sociology majors.

0201	Meyer Kestnbaum TuTh 2:00pm - 3:15pm	Seats (Total: 78) TWS 1310	

SOCY225 **Women's Jobs, Men's Jobs: How and Why Do They Differ?**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, SCIS

An exploration of critical issues pertaining gender differences in the workplace. Overview of theories explaining why some people do better than the others in the world of work, and discussions of more specific questions relating to women's and men's job opportunities and experiences.

0101	Wei-hsin Yu MW 2:00pm - 2:50pm F 10:00am - 10:50am	Seats (Total: 22) TWS 1100 ASY 3215	Discussion
0102	Wei-hsin Yu MW 2:00pm - 2:50pm F 11:00am - 11:50am	Seats (Total: 22) TWS 1100 ASY 3215	Discussion
0103	Wei-hsin Yu MW 2:00pm - 2:50pm F 1:00pm - 1:50pm	Seats (Total: 22) TWS 1100 ASY 3219	Discussion
0104	Wei-hsin Yu MW 2:00pm - 2:50pm F 2:00pm - 2:50pm	Seats (Total: 22) TWS 1100 ASY 3217	Discussion

SOCY227 **Introduction to the Study of Deviance**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS

Credit only granted for: SOCY227 or SOCY327. Formerly: SOCY327.

An introduction to the sociological study of deviant behavior, covering such topics as mental illness, sexual deviance, and the use of drugs.

0101	David Strohecker MWF 10:00am - 10:50am	Seats (Total: 50) ASY 1213
0201	Mollie Greenberg MWF 12:00pm - 12:50pm	Seats (Total: 50) ASY 1213

SOCY230 **Sociological Social Psychology**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS

Theoretical perspectives and their applications. Socialization through the life course, the self-concept, attitudes, emotion, attribution, interpersonal relations, group processes, deviance, and social change.

0101	Jeffrey Lucas TuTh 12:30pm - 1:45pm	Seats (Total: 192) ASY 2203

SOCY236 **Gender and Health**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

The relationship between gender and health is the central focus of this course, and how this relationship is conditioned by race-ethnicity, sexuality, and social class. We consider how sociopolitical and environmental factors influence gendered associations with physical and mental health. In addition, this is a course on how to do the disciplinary work of sociology. Social policies surrounding health have been crucial to creating our current understandings of our system, and this course will give insight into how policies are crafted through a peer reviewed process that relies on critical feedback from sociologists engaged in the same project, in this case, the other students in this course.

0101	Liana Sayer	Seats (Total: 78)
	MW 10:00am - 10:50am	TWS 1310
	Class time/details on ELMs	ONLINE

SOCY242 **Sociology of Homelessness**

Credits: 3 | Grading Method: Regular | General Education: DSSP

Examines the causes of and solutions for homelessness in society. How social scientists analyze social issues using ethnographic observation, surveys, official statistics, and other research methods. Discusses how policies have responded to the problem of homelessness, and how to evaluate their effectiveness.

0101	Reeve Vanneman	Seats (Total: 36)
	TuTh 12:30pm - 1:45pm	ESJ 1309

SOCY258L **Special Topics in Study Abroad II; Living Rome: Urban Spaces, Culture and Identity**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SOCY335 **Sociology of Health and Illness**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

An exploration of the social model to studying health and illness: how meanings and experiences of health and illness are socially produced. How experiences are shaped by the interaction of external social environments (culture, community) and the internal environment (human body), and by socio-demographic variables (race, class, gender, etc.). Disparities in health and healthcare delivery, medicalization of society, determinants of health, social construction of illness, and the social organization of health care.

0101	Alex Parkhouse	Seats (Total: 80)
	TuTh 12:30pm - 1:45pm	ASY 2309

SOCY370 **Transition from Undergrad to Professional**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Prepares Sociology majors to make the transition from undergraduate to entering graduate school and/or the professional work world. Topics include career options in Sociology, skills for conducting a job search, resume writing and interview preparation, and the graduate application process.

0101	Amy McLaughlin	Seats (Total: 15)
	W 1:00pm - 2:50pm	ASY 1117

SOCY380 **Honors Independent Reading in Sociology**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of BSOS-Sociology department. Formerly: SOCY378.

This course permits sociology honor students to undertake a program or reading on a particular problem in sociology or a subfield therein. The reading will be done under the supervision of a member of the sociology faculty. Required of sociology honor students.

0101	Nicole Cousin-Gossett	Seats (Total: 5)
	Contact instructor or department for details.	

SOCY381 **Honors Independent Research in Sociology**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SOCY380. Formerly: SOCY388.

This course permits sociology students to define a particular problem in sociology or a subfield therein and to develop a research plan for use as a thesis topic. The work will be done under the supervision of a member of the sociology faculty.

Contact department for information to register for this course.

SOCY383 **Honors Thesis Research**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SOCY381. Formerly: SOCY389.

Student research under the direction of a member of the sociology faculty, culminating in the presentation and defense of a thesis reporting the research.

Contact department for information to register for this course.

SOCY386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Restriction: Permission of BSOS-Sociology department; and junior standing or higher.

To register, students must have departmental permission form signed by instructor and by Coordinator of Sociology Undergraduate Program.

Contact department for information to register for this course.

SOCY398O **Special Topics in Sociology; Ethnic Relations in Israel**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics of special interest to both sociology majors and non-majors.

Also offered as ISRL329L. Credit Only granted for ISRL329L or SOCY398O. This course will examine the history and development of Israel's unique mosaic of ethnicities, including secular and religious, Mizrahim (Eastern) and Ashkenazi (Western) Jews, Christian and Muslim Palestinians, Russians, Ethiopians, and many more, including how they don't (and do) get along with each other. It will also examine various approaches to both studying and dealing with the issues that are raised by this amazing diversity.

0101	Erez Tzfadia	Seats (Total: 35)
	Class time/details on ELMs	ONLINE

SOCY398W **Special Topics in Sociology; Experiential Learning: Maryland, Public Policy, and Beyond**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Topics of special interest to both sociology majors and non-majors.

0101	Casey Burgat Class time/details on ELMs Contact instructor or department for details.	Seats (Total: 40) ONLINE

SOCY399 **Independent Study in Sociology**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

Integrated reading or research under the direction and supervision of a faculty member. A maximum of 6 credits may be earned by a student for the same field experience in SOCY386 and SOCY399 combined.

No more than 6 hours of 399 is allowed for credit.

Contact department for information to register for this course.

SOCY410 **Social Demography**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 6 credits in SOCY courses; or permission of BSOS-Sociology department.

Types of demographic analysis; demographic data; population characteristics; migration; mortality; fertility; population theories; world population growth; population policy.

0101	Feinian Chen TuTh 2:00pm - 3:15pm	Seats (Total: 25) ASY 3207

SOCY420 **Qualitative Research Methods in Sociology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 6 credits in SOCY courses.

Using the sociological imagination to independently explore research questions as designed by students. Readings will explore dilemmas qualitative researchers confront such as, how to conduct research ethically and how their background influences their findings and analysis. Students will learn how to collect data, analyze it, and present it to others.

0101	Dawn Dow TuTh 11:00am - 12:15pm	Seats (Total: 20) ASY 1101

SOCY424 **Sociology of Race Relations**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 6 credits in SOCY courses; or permission of BSOS-Sociology department. Also offered as: AAST424. Credit only granted for: AAST424 or SOCY424.

Analysis of race-related issues, with a primary focus on American society. The historical emergence, development, and institutionalization of racism; the impact of racism on its victims; and racially based conflict.

0101	Kris Marsh	Seats (Total: 29)
	MWF 9:00am - 9:50am	ASY 3215

SOCY431 Principles of Organizations

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 6 credits in SOCY courses; or permission of BSOS-Sociology department.

Structural and processual characteristics of organizations that make them effective for different purposes and in different environments. Effects of different institutional environments, small group processes, organizational networks, and leadership. Types of organizations studied include formal bureaucracies, professional organizations, and voluntary associations.

0101	Robert Pernick	Seats (Total: 29)
	MWF 10:00am - 10:50am	ASY 2309

SOCY432 Social Movements

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 6 credits in SOCY courses; or permission of BSOS-Sociology department.

Movements that seek change in the social and political structure of society. Origins, tactics, organization, recruitment, and success. Case studies come from such movements as labor, civil rights, student, feminist, environmental, neighborhood, and gay rights.

0101	Melissa Brown	Seats (Total: 29)
	MWF 1:00pm - 1:50pm	TWS 1320

SOCY441 Social Stratification and Inequality

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 6 credits in SOCY courses; or permission of BSOS-Sociology department. Restriction: Junior standing or higher.

The sociological study of social class, status, and power. Topics include theories of stratification, correlates of social position, functions and dysfunctions of social inequality, status inconsistency, and social mobility.

0101	Reeve Vanneman	Seats (Total: 80)
	TuTh 9:30am - 10:45am	ASY 2309

SOCY480 **Researching the Middle East**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in SOCY201, SOCY202, and SOCY203. Credit only granted for: SOCY498E or SOCY480. Formerly: SOCY498E.

Introduces religion, gender, and politics in the Middle East and North Africa. After an overview of the political and social history the focus will be on methods for carrying out fundamental issues facing Middle Eastern societies, including national identity, religion, gender relations and the status of women in the family, politics, education, and labor market.

0101	Mansoor Moaddel	Seats (Total: 19)
	TuTh 11:00am - 12:15pm	ARC 1125

SOCY498F **Selected Topics in Sociology; Race and Reproduction**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics of special interest to advanced undergraduates in sociology. Such courses will be offered in response to student request and faculty interest.

Also offered as AASP499C, AMST498E, and WMST428C. Credit only granted for AASP499C, AMST498E, SOCY498F, or WMST428C.

0101	Sangeetha Madhavan	Seats (Total: 35)
	W 2:00pm - 4:30pm	ASY 3203

SOCY498T **Selected Topics in Sociology; Black Middle Class**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics of special interest to advanced undergraduates in sociology. Such courses will be offered in response to student request and faculty interest.

0101	Kris Marsh	Seats (Total: 29)
	MWF 10:00am - 10:50am	ASY 3203

SOCY601 **Statistics For Sociological Research I**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: SOCY201; or students who have taken courses with comparable content may contact the department. Restriction: Permission of instructor. Credit only granted for: SOCY601 and SURV601.

Introductory statistical concepts are covered including descriptive statistics, probability, sampling distributions, expected values, hypothesis testing, tests of significance, measures of association, and if time permits, introduction to regression analysis. Statistical programming software may be used.

0101	Amelia Branigan	Seats (Total: 20)
	MW 2:00pm - 3:20pm	ASY 1101

SOCY602 **Statistics For Sociological Research II**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: SOCY601; or students who have taken courses with comparable content may contact the department. Restriction: Permission of instructor. Credit only granted for: SOCY602 or SURV602.

This course introduces regression analysis using matrix algebra. Topics include bivariate regression, multivariate regression, tests of significance, regression diagnostics, indicator variables, interaction terms, extra sum of squares, and the general linear model. Other topics may be addressed such as logistic regression and path analysis. Statistical programming software may be used.

0101	Amelia Branigan	Seats (Total: 20)
	M 3:30pm - 6:00pm	ASY 1101

SOCY616 **Sociology Pro-Seminar**

Credits: 1 Grading Method: Sat-Fail

Restriction: Must be in Sociology (Doctoral) program. Credit only granted for: SOCCY699P or SOCY616. Formerly: SOCY699P.

The proseminar is the guide to Sociology as a profession, and how sociology is practiced here at the University of Maryland. The goal of the course is to help students gain insider knowledge about how to develop sociological knowledge and capabilities, and what it means to practice sociology as a graduate student and beyond. The course will discuss both practical aspects of professional life in general and specific topics of interest.

0101	Liana Sayer	Seats (Total: 20)
	W 1:00pm - 1:50pm	ASY 1101

SOCY620 **Development of European and American Sociological Theory**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: SOCY203 or SOCY403; or students who have taken courses with comparable content may contact the department; or permission of instructor.

Review of the history of sociological thought with major attention to the key figures (from Marx to C. Wright Mills).

For SOCY majors only.

0101	Meyer Kestnbaum	Seats (Total: 20)
	Th 3:30pm - 6:00pm	ASY 2115

SOCY625 **Activism and Global Movements**

Credits: 3 Grading Method: Regular

Restriction: Must be enrolled in a Sociology (SOCY) graduate program; or permission of instructor.

An introduction to the research on activism, focusing particularly on the global and transnational aspects of activism and social movements. The course begins with an overview of the theoretical literature on activism and social movements. Then, we will focus on case studies of particular movements that have a global component and have been the focus of recent sociological inquiry: the globalization movement, Arab Spring, and the climate/climate justice movement.

0101	Dana Fisher	Seats (Total: 20)
	W 3:30pm - 6:00pm	ASY 2115

SOCY627 **Migration**

Credits: 3 Grading Method: Regular, Audit

Examines theories of immigration and immigrant adaptation, empirical patterns of migration and immigration, the economic and social effects of immigration, as well as immigration policy issues.

0101	Julie Park	Seats (Total: 20)
	Th 3:30pm - 6:00pm	ASY 1101

SOCY632 **Introduction to Qualitative Research Methods**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in Sociology (Doctoral) program; and permission of instructor.

An introductory course in qualitative research methods, intended to provide a general overview of the ways sociologists collect qualitative information about social phenomena, focusing on how to collect and anaylyze data that are reliable and applicable to our research questions. We will begin by constructing a research question that will drive our work for the entire semester. You will learn three of the main ways that qualitative data are used in sociological research: analysis of written material, participant observation, and open ended semi-structured interviews.

0101	Dawn Dow	Seats (Total: 20)
	Th 6:30pm - 9:00pm	ASY 1101

SOCY642 **The Sociology of Mental Health**

Credits: 3 Grading Method: Regular, Audit

Social factors that influence mental health. Group dynamics of mental health preservation.

0101	Long Doan	Seats (Total: 20)
	Tu 6:30pm - 9:00pm	ASY 1101

SOCY661 **Social Stratification**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of instructor.

Major theoretical and research problems in the sociology of social stratification. The characteristics, correlates, and consequences of class and status stratification; the distribution of power; the relationship of social stratification to ideology and the institutional orders of society.

0101	Wei-hsin Yu, Andres Villarreal	Seats (Total: 15)
	W 4:00pm - 6:30pm	ASY 1101

SOCY699 **Special Social Problems**

Credits: 1-16 Grading Method: Regular

Contact department for information to register for this course.

SOCY699C **Special Social Problems; Introduction to Computing for Sociologists**

Credits: 1 Grading Method: Regular, Audit

0101	Amelia Branigan	Seats (Total: 20)
	F 2:00pm - 3:50pm	LEF 0229

SOCY699D **Special Social Problems; Logic of Social Inquiry**

Credits: 3 Grading Method: Regular, Audit

Restricted to Sociology Graduate Students

0101	Long Doan	Seats (Total: 20)
	Tu 3:30pm - 6:00pm	ASY 2115

SOCY699E **Special Social Problems; Critical Race Initiative**

(Perm req)

Credits: 1 Grading Method: Regular, Audit

Restriction: Permission of Instructor required. Please contact instructor or department for details.

0101	Rashawn Ray	Seats (Total: 10)
	F 11:00am - 11:50am	Location: TBA

SOCY699M **Special Social Problems; Pro-Seminar for BA/MA Students**

(Perm req)

Credits: 1 Grading Method: Regular, Audit

Restricted to students in the 5-Year BA/MA Sociology program.

0101	Roberto Korzeniewicz	Seats (Total: 10)
	Contact instructor or department for details.	

SOCY799 **Master's Thesis Research**

(Perm req) Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

SOCY819 **Research Seminar in Social Psychology**

Credits: 1 Grading Method: Regular, Audit

An advanced research seminar for students preparing to do research or take comprehensive examinations in social psychology.

0101	Jeffrey Lucas	Seats (Total: 10)
	Contact instructor or department for details.	

SOCY829 **Research Seminar in Sociological Theory**

Credits: 1 Grading Method: Regular, Audit

An advanced research seminar for students preparing to do research or take comprehensive examinations in sociological theory.

0101	Meyer Kestnbaum	Seats (Total: 10)
	Contact instructor or department for details.	

SOCY849 **Research Seminar in Demography**

Credits: 1 Grading Method: Regular, Audit

An advanced research seminar for students preparing to do research or take comprehensive examinations in demography.

0101	Sonalde Desai	Seats (Total: 10)
	Contact instructor or department for details.	

SOCY858 **Research Seminar in Gender, Work and Family**

Credits: 1 Grading Method: Regular, Audit

An advanced research seminar for students preparing to do research or take the specialty examination in Gender, Work and Family.

0101	Liana Sayer	Seats (Total: 10)
	Contact instructor or department for details.	

SOCY869 **Research Seminar in Military Sociology**

Credits: 1 Grading Method: Regular, Audit

An advanced research seminar for students preparing to do research or take comprehensive examinations in military sociology.

0101	Meredith Kleykamp	Seats (Total: 10)
	Contact instructor or department for details.	

SOCY889 **Research Seminar in Social Stratification**

Credits: 1 Grading Method: Regular, Audit

An advanced research seminar for students preparing to do research or take comprehensive examinations in stratification.

0101	Philip Cohen	Seats (Total: 10)
	Contact instructor or department for details.	

SOCY898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

SOCY899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

SPAN Spanish Fall 2018

SPAN103 **Intensive Elementary Spanish**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not be a native/fluent speaker of Spanish. Credit only granted for: SPAN102 or SPAN103.

Covers speaking, reading, writing, listening, and culture of Spanish-speaking world.

0101	Rodney Lebron MWF 10:00am - 10:50am Tu 10:00am - 10:50am	Seats (Total: 20) WDS 1130 JMZ 0103
0201	Juan Diaz MWF 11:00am - 11:50am Tu 11:00am - 11:50am	Seats (Total: 25) JMZ 0205 JMZ 0125
0301	Daniela Hernandez MWF 12:00pm - 12:50pm Tu 12:00pm - 12:50pm	Seats (Total: 25) JMZ 0122 JMZ 1120
0401	Ofelia Montelongo Valencia MWF 1:00pm - 1:50pm Tu 1:00pm - 1:50pm	Seats (Total: 25) KEY 0125 JMZ 0122
0501	Katherin Solano MWF 2:00pm - 2:50pm Tu 2:00pm - 2:50pm	Seats (Total: 25) JMZ 2206 JMZ 1117

SPAN169O **Special Topics in Study Abroad I; Beginner Spanish I**

Credits: 6 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN169P **Special Topics in Study Abroad I; Beginner Spanish II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN169X **Special Topics in Study Abroad I; Elementary Spanish I**

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN169Y **Special Topics in Study Abroad I; Elementary Spanish II**

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN203 **Intensive Intermediate Spanish**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit CORE: HO

Prerequisite: SPAN103; or must have appropriate Foreign Language Placement Test (FLPT) score.
Restriction: Must not be a native/fluent speaker of Spanish.

Covers speaking, reading, writing, listening, and culture of Spanish-speaking world.

0201	Carla Onate MWThF 10:00am - 10:50am	Seats (Total: 25) JMZ 1124
0301	Carla Onate MWF 11:00am - 11:50am Th 11:00am - 11:50am	Seats (Total: 25) JMZ 0122 JMZ 1117
0401	Jose Magro MWF 11:00am - 11:50am Th 11:00am - 11:50am	Seats (Total: 25) JMZ 1120 JMZ 1120
0501	Jose Magro MWF 12:00pm - 12:50pm Th 12:00pm - 12:50pm	Seats (Total: 25) JMZ 2122 JMZ 1120
0601	Carla Onate MWF 1:00pm - 1:50pm Th 1:00pm - 1:50pm	Seats (Total: 25) JMZ 1224 JMZ 0122
0701	Evelyn Canabal-Torres MWThF 1:00pm - 1:50pm	Seats (Total: 25) JMZ 1124
0801	Jose Magro MWThF 2:00pm - 2:50pm	Seats (Total: 25) JMZ 1124

SPAN204 **Spanish Grammar Review**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO

Prerequisite: SPAN203; or must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Not open to fluent/native speakers of Spanish.

An in-depth study and analysis of selected grammatical topics in a contextualized framework.

0101	Jackson Monzon MWF 12:00pm - 12:50pm	Seats (Total: 25) JMZ 2207
0201	Jackson Monzon MWF 1:00pm - 1:50pm	Seats (Total: 25) JMZ 2122
0301	Rosario de Fatima Montero Navarro TuTh 11:00am - 12:15pm	Seats (Total: 25) HBK 1112

SPAN206 **Spanish for Heritage Speakers I**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Native or near native knowledge of and no formal education in Spanish.

Review of oral and written Spanish for students who have native or near native knowledge of, but no formal education in Spanish. Taught in Spanish.

Offered fall only.

0101	Evelyn Canabal-Torres MWF 10:00am - 10:50am	Seats (Total: 25) JMZ 0118

SPAN207 **Reading and Writing in Spanish**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU

Prerequisite: Minimum grade of B+ in SPAN203; or must have completed or be concurrently enrolled in SPAN204; or must have appropriate Foreign Language Placement Test (FLPT) score.

Selected readings with emphasis on reading comprehension and the development of reading strategies. Work in composition writing and a review of selected grammatical topics. Complements material of SPAN204.

0101	Chila Hidalgo MWF 10:00am - 10:50am	Seats (Total: 25) JMZ 3203

0201	Chila Hidalgo MWF 11:00am - 11:50am	Seats (Total: 25) JMZ 3203
0301	Chila Hidalgo MWF 12:00pm - 12:50pm	Seats (Total: 25) JMZ 3203
0401	Douglas Glynn TuTh 9:30am - 10:45am	Seats (Total: 25) JMZ 0208
0601	Douglas Glynn TuTh 11:00am - 12:15pm	Seats (Total: 25) JMZ 0205

SPAN234 **Issues in Latin American Studies I**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO, D | General Education: DSHS, DSHU, DVUP

Also offered as: PORT234, LASC234. Credit only granted for: SPAN234, PORT234, or LASC234.

Interdisciplinary study of major issues in Latin America and the Caribbean, including Latin America's cultural mosaic, migration and urbanization. Democratization and the role of religions. Taught in English.

0101	Britta Anderson TuTh 3:30pm - 4:45pm	Seats (Total: 30) TYD 2110
0201	Britta Anderson TuTh 12:30pm - 1:45pm	Seats (Total: 35) ASY 3203

SPAN234H **Issues in Latin American Studies I**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO, D | General Education: DSHS, DSHU, DVUP

Also offered as: PORT234, LASC234. Credit only granted for: SPAN234, PORT234, or LASC234.

Interdisciplinary study of major issues in Latin America and the Caribbean, including Latin America's cultural mosaic, migration and urbanization. Democratization and the role of religions. Taught in English.

Open to Honor students only.

0101	Britta Anderson TuTh 3:30pm - 4:45pm	Seats (Total: 5) TYD 2110

SPAN269A **Special Topics in Study Abroad II; B1 Intermediate Level Spanish I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN269B **Special Topics in Study Abroad II; B1 Intermediate Level Spanish II**

Credits: 6 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN269D **Special Topics in Study Abroad II; Catalan Language and Culture**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN269I **Special Topics in Study Abroad II; Intermediate Spanish**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN269L **Special Topics in Study Abroad II; Spanish Language B1**

Credits: 6 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN301 **Advanced Grammar and Composition I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in SPAN207.

Practice of complex grammatical structures through reading and writing of compositions and essays. Specific lexical, syntactic, rhetorical, and stylistic devices will be highlighted.

0101	Ana Acedo Garcia MWF 10:00am - 10:50am	Seats (Total: 20) JMZ 0103
0201	Ana Acedo Garcia MWF 11:00am - 11:50am	Seats (Total: 20) JMZ 0103
0301	Carla Onate MWF 12:00pm - 12:50pm	Seats (Total: 20) JMZ 2117
0401	Chila Hidalgo MWF 2:00pm - 2:50pm	Seats (Total: 20) JMZ 2117
0501	Sofia Maurette TuTh 9:30am - 10:45am	Seats (Total: 20) JMZ 1226
0601	Nidia Reyes TuTh 12:30pm - 1:45pm	Seats (Total: 20) JMZ 2125
0701	Nidia Reyes TuTh 11:00am - 12:15pm	Seats (Total: 20) JMZ 1226
0801	Douglas Glynn Tu 2:00pm - 3:15pm Th 2:00pm - 3:15pm	Seats (Total: 20) JMZ 1103 TLF 1103

SPAN302 **Advanced Grammar and Composition II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SPAN301.

Practice in and writing of different types of compositions and essays, including narrations, descriptions, and persuasive writing. Review of problematic syntactical structures.

Contact department for information to register for this course.

SPAN303 **Approaches to Cultural Materials in the Hispanic World**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHU

Prerequisite: SPAN301. Recommended: May elect to take SPAN311 and/or SPAN316 in same semester as SPAN303.

Development of proficiency in critical thought through the reading, viewing, and analytical discussion of major genres and styles of cultural materials selected from Spanish-speaking world. Taught in Spanish.

0101	Nelida Devesa-Gomez TuTh 9:30am - 10:45am	Seats (Total: 20) KEY 0119
0201	Christopher Lewis MWF 10:00am - 10:50am	Seats (Total: 20) JMZ 0120
0301	Christopher Lewis MWF 11:00am - 11:50am	Seats (Total: 20) JMZ 1124
0401	Daniela Bulansky MWF 12:00pm - 12:50pm	Seats (Total: 20) JMZ 1124
0501	Laura Demaria TuTh 11:00am - 12:15pm	Seats (Total: 20) JMZ 2123
0601	Rebeca Moreno-Orama TuTh 12:30pm - 1:45pm	Seats (Total: 20) KEY 0125
0701	Anne Giller-Wilde TuTh 2:00pm - 3:15pm	Seats (Total: 20) SKN 1112

SPAN306 **Spanish for Heritage Speakers II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SPAN206.

Practice of complex grammatical structures through reading and writing of compositions and essays. Specific lexical, syntactic, rhetorical and stylistic devices will be highlighted. Designed for Spanish speakers educated in English. Taught in Spanish.

0101	Evelyn Canabal-Torres MWF 11:00am - 11:50am	Seats (Total: 25) JMZ 0208

SPAN311 **Advanced Communication I**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SPAN301; and must have completed or be concurrently enrolled in SPAN303.
Restriction: Must not be a native/fluent speaker of Spanish.

Further development of listening, speaking, and writing skills in Spanish. Opportunity to develop oral and written fluency, improve pronunciation and increase vocabulary. Individual and/or group oral presentations. Taught in Spanish.

0101	Ana Acedo Garcia MWF 1:00pm - 1:50pm	Seats (Total: 20) JMZ 2117
0201	Elisa Gironzetti TuTh 12:30pm - 1:45pm	Seats (Total: 20) JMZ 3203

SPAN316 **Spanish Translation I**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SPAN301; and must have completed or be concurrently enrolled in SPAN303.

Translation of texts into Spanish and/or English. Taught in Spanish.

Offered fall only.

0101	Luis Charry MWF 10:00am - 10:50am	Seats (Total: 20) JMZ 1224
0201	Luis Charry MWF 11:00am - 11:50am	Seats (Total: 20) JMZ 3205
0301	Anne Giller-Wilde TuTh 12:30pm - 1:45pm	Seats (Total: 20) JMZ 1215

SPAN317 **Translation II**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SPAN316.

Translation of non-literary, non-technical texts into Spanish and/or English.

Contact department for information to register for this course.

SPAN318T **Translation of Technical Texts; Spanish for Legal Professions**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Specialized texts in law and international affairs into Spanish and/or English. Taught in Spanish.

0101	Jose Magro	Seats (Total: 20)
	MWF 1:00pm - 1:50pm	JMZ 0122

SPAN325 **Hispanic Linguistics I: Phonetics and Phonology**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SPAN303; and (SPAN311 or SPAN316). Credit only granted for: SPAN310 or SPAN325. Formerly: SPAN310.

Descriptive study of the Spanish sound system. Practice in phonetic perception, transcription, and articulation. Particular attention to sentence phonetics; juncture, rhythm, stress, pitch. Taught in Spanish.

0101	Ana Acedo Garcia	Seats (Total: 25)
	MWF 12:00pm - 12:50pm	JMZ 2120

SPAN331 **Spanish Culture, Civilization and Literature I: Medieval Times**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHU

Prerequisite: SPAN303; and (SPAN311 or SPAN316).

The exploration of cultures of the Iberian Peninsula from its origins until the 15th century as well as the study of historical and political events that gave rise to the Spanish state. Taught in Spanish.

0101	Carmen Benito-Vessels	Seats (Total: 25)
	TuTh 11:00am - 12:15pm	JMZ 1224

SPAN332 **Spanish Culture, Civilization and Literature II: Renaissance and Baroque**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHU

Prerequisite: SPAN303; and (SPAN311 or SPAN316).

An overview of cultural and literary production of Spain from the late 15th through late 17th centuries, exploring the production of literary texts in their socio-historical, political, religious and cultural contexts and development. Taught in Spanish.

Contact department for information to register for this course.

SPAN333 **Spanish Culture, Civilization and Literature III: Modern Times**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU

Prerequisite: SPAN303; and (SPAN311 or SPAN316).

An overview of cultural and literary production of Spain from the late 17th century through the present day, exploring the production of literary texts in their socio-historical, political, religious and cultural contexts and development. Taught in Spanish.

0101	Juan Uriagereka TuTh 2:00pm - 3:15pm	Seats (Total: 25) TLF 1101

SPAN359L **Spanish for the Professions; Spanish in the Life Sciences**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Exploration of cultural and linguistic skills for different professional contexts including vocabulary, listening, speaking, reading and strategies. No experience in the professional area necessary. Taught in Spanish.

0101	Daniela Bulansky MWF 10:00am - 10:50am	Seats (Total: 15) JMZ 3118

SPAN361 **Latin American Literatures and Cultures I: From Pre-Columbian to Colonial Times**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU, DVUP

Prerequisite: SPAN303; and (SPAN311 or SPAN316).

Overview of cultural history of Latin America from pre-Columbian civilizations to the Colonial period, exploring the foundations of the Spanish American cultural and literary tradition to approximately 1770. Taught in Spanish.

0101	Eyda Merediz MWF 1:00pm - 1:50pm	Seats (Total: 25) JMZ 1215
0201	Lisa Carney TuTh 9:30am - 10:45am	Seats (Total: 25) JMZ 1117

SPAN362 **Latin American Literatures and Cultures II: From Independence to Nation Formation**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU, DVUP

Prerequisite: SPAN303; and (SPAN311 or SPAN316).

An overview of cultural and literary production of Latin America from the 18th Century to approximately 1900, exploring the production of literary texts in their socio-historical, political, and cultural contexts and development. Taught in Spanish.

Contact department for information to register for this course.

SPAN363 **Latin American Literatures and Cultures III: From Modernism to Neo-Liberalism**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU, DVUP

Prerequisite: SPAN303; and (SPAN311 or SPAN316).

An overview of cultural and literary production of Latin America from the late 19th through the early 21st centuries, exploring the production of literary texts in their socio-historical, political, and cultural contexts and development. Taught in Spanish.

0101	Saul Sosnowski MWF 12:00pm - 12:50pm	Seats (Total: 25) JMZ 1117
0201	Juan Carlos Quintero-Herencia TuTh 12:30pm - 1:45pm	Seats (Total: 25) JMZ 2206

SPAN369A **Special Topics in Study Abroad III; Advanced Oral Communication in Spanish**

Credits: 1 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN369B **Special Topics in Study Abroad III; Advanced Academic Writing in Spanish**

Credits: 1 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN369F **Special Topics in Study Abroad III; Spanish Oral Skills through Theatre**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN369G **Special Topics in Study Abroad III; Spanish for the Health Professional**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN369J **Special Topics in Study Abroad III; Spanish Grammar and Expression**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN369M **Special Topics in Study Abroad III; Spanish Language B2**

Credits: 6 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN369O **Special Topics in Study Abroad III; Spanish Conversation and Oral Skills**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN369P **Special Topics in Study Abroad III; Spanish Oral Techniques**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN369Q **Special Topics in Study Abroad III; Spanish Phonetics and Phonology**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN369R **Special Topics in Study Abroad III; Advanced Reading Skills in Spanish**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN369V **Special Topics in Study Abroad III; Advanced Present-Day Spanish Usage**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN369W **Special Topics in Study Abroad III; Spanish Stylistics: Advanced Spanish Writing and Stylistics**

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN369Y **Special Topics in Study Abroad III; B2 Advanced Level Spanish 1**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN369Z **Special Topics in Study Abroad III; B2 Advanced Level Spanish 2**

Credits: 6 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN370 **Spanish for Business I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SPAN303; and (SPAN311 or SPAN316). Credit only granted for: SPAN315 or SPAN370. Formerly: SPAN315.

Business Spanish terminology, vocabulary and practices. Emphasis on everyday spoken and written Spanish. Readings and discussions of Spanish commercial topics. May include exposure to Spanish commercial topics. May include exposure to Spanish business environments. Taught in Spanish.

0101	Fabian Faccio MWF 11:00am - 11:50am	Seats (Total: 25) SQH 2120
0201	Fabian Faccio MW 1:00pm - 1:50pm F 1:00pm - 1:50pm	Seats (Total: 25) SQH 1101 SQH 1105

SPAN374 **Spanish in the Community**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: SPAN301 and SPAN316; or permission of instructor. Credit only granted for: SPAN374 or SPAN359B. Formerly: SPAN359B.

Provides students with context for understanding, communicating with, and working with the Spanish-speaking community. Topics include Latino/a demographics, cultures, communities, work opportunities and local uses of Spanish. Requires outside service-learning work.

0101	Ana Rodriguez TuTh 11:00am - 12:15pm	Seats (Total: 20) JMZ 2117

SPAN386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Prerequisite: Permission of ARHU-School of Languages, Literatures, and Cultures department. Restriction: Junior standing or higher.

Contact department for information to register for this course.

SPAN399 **Independent Study in Spanish**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Specific readings in literature or a translation project under the supervision of a faculty member of the department.

Prerequisite: permission of department.

Contact department for information to register for this course.

SPAN401 **Advanced Composition I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SPAN302; or permission of ARHU-School of Languages, Literatures, and Cultures department.

Compositions and essays with emphasis on stylistics, idiomatic and syntactic structures. Organization and writing of research papers.

Contact department for information to register for this course.

SPAN402 **Advanced Composition II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SPAN401; or permission of ARHU-School of Languages, Literatures, and Cultures department.

Compositions and essays with emphasis on stylistics, idiomatic and syntactic structures. Organization and writing of research papers.

Contact department for information to register for this course.

SPAN408D **Great Themes of the Hispanic Literatures; The Spanish-American Short Story**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Major themes in the literature of Spain or Spanish-America. Each theme will be announced when the course is offered.

Prerequisite: Must have completed SPAN331, SPAN332, SPAN333, SPAN361, SPAN362, or SPAN363 The first part of the curse will provide a panoramic view of the short story from the early nineteenth century to contemporary trends. Then we will focus on key writers such as Borges, Cortazar, Rulfo, Carpentier, and complete the course with a selection of more recent short story writers from across the region. Course requirements include oral presentations, a midterm and final exam, and a paper.

0101	Saul Sosnowski	Seats (Total: 25)
	MWF 11:00am - 11:50am	JMZ 0120

SPAN408E **Great Themes of the Hispanic Literatures; What Is a Beach?**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Major themes in the literature of Spain or Spanish-America. Each theme will be announced when the course is offered.

Prerequisite: Must have completed SPAN331, SPAN332, SPAN333, SPAN361, SPAN362, or SPAN363 What is a beach? How did the beach or the coastline become cultural and aesthetic spaces in the Hispanic Caribbean? How Geography and imagination establish a dialogue? Or, can a geographic map help us understand the imaginary topography produced in the Hispanic Caribbean archipelago? What are the experiences and fantasies, culturally and politically, associated with the beach? This course will examine different island spaces within the Contemporary Hispanic Caribbean archive. Issues of identity, politics, race and power will be discussed through a series of texts, images, music recordings and films from Cuba, Dominican Republic and Puerto Rico. The undetermined limits between inside and outside, land and water are always historical and a matter of complex discussions. Subjectivity and sensibility are locations marked by images, bodies and historicity. The main goal of the course is to understand both, the body and the cultural sensorial specificity of the Caribbean. Students will be expected to participate actively in class write short essays and complete miscellaneous assignments.

0101	Juan Carlos Quintero-Herencia	Seats (Total: 25)
	TuTh 9:30am - 10:45am	JMZ 0205

SPAN408F **Great Themes of the Hispanic Literatures; The Usable Past: Reflection on Archives in Contemporary Fictions and Films from the Southern Cone**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Major themes in the literature of Spain or Spanish-America. Each theme will be announced when the course is offered.

Prerequisite: Must have completed SPAN331, SPAN332, SPAN333, SPAN361, SPAN362, or SPAN363 Che Guevara on a t-shirt, Eva Peron in a Broadway musical, Bolivar as trans on a postcard, Gabriela Mistral on a peso bill, Pablo Neruda as a postmans friend, Frida Khalo as a feminist icon, Artigas in a blues band. This list can continue. Nevertheless, what all these cultural appropriations have in common is that the present has used the past to inscribe a functional narrative for that time. This course will not ask if we can know past events as they really happened, but rather it will explore how contemporary fictions and films from the Southern Cone construct usable cultural archives for their present. Also this seminar traces the ways in which contemporary authors, filmmakers, and visual artists reflect on the past in order to critically read their present. Concentrating on the past as both the subject of fiction and as a force for inscribing fiction, this seminar inscribes an approach to time that moves away from a linearity.

0101	Laura Demaria	Seats (Total: 25)
	TuTh 2:00pm - 3:15pm	JMZ 2207

SPAN408Y **Great Themes of the Hispanic Literatures; Contemporary Spanish Short Story**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Major themes in the literature of Spain or Spanish-America. Each theme will be announced when the course is offered.

Contact department for information to register for this course.

SPAN409F **Great Themes of the Hispanic Literatures; Literary Myths and Philosophy in the European Tradition**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Pervading themes in the literature of Spain or Spanish-America. Each theme will be announced when the course is offered.

Contact department for information to register for this course.

SPAN409L **Great Themes of the Hispanic Literatures; 20th Century and Contemporary Latin American Short Story**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Pervading themes in the literature of Spain or Spanish-America. Each theme will be announced when the course is offered.

Contact department for information to register for this course.

SPAN409O **Great Themes of the Hispanic Literatures; Images of Spain in Contemporary Cinema**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Pervading themes in the literature of Spain or Spanish-America. Each theme will be announced when the course is offered.

Contact department for information to register for this course.

SPAN409W **Great Themes of the Hispanic Literatures; Women Writers of Spain**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Pervading themes in the literature of Spain or Spanish-America. Each theme will be announced when the course is offered.

Contact department for information to register for this course.

SPAN409X **Great Themes of the Hispanic Literatures; The Spanish Mystery Novel**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Pervading themes in the literature of Spain or Spanish-America. Each theme will be announced when the course is offered.

Contact department for information to register for this course.

SPAN409Y **Great Themes of the Hispanic Literatures; Filmmaking in Spain**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Pervading themes in the literature of Spain or Spanish-America. Each theme will be announced when the course is offered.

Contact department for information to register for this course.

SPAN422 **Intercultural Communication and Negotiation**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DVCC

Prerequisite: SPAN370 OR SPAN371 OR SPAN373 OR SPAN 374. Restriction: Junior standing or higher.

Focuses on the relationship of language and culture of those operating in world markets. Particular attention will be given to intercultural communication, linguistic systems, culture specific perceptions of, and negotiation with, the Spanish-speaking world. Taught in Spanish.

Contact department for information to register for this course.

SPAN425 **Hispanic Linguistics II: Structures of Spanish**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SPAN303; and SPAN311 or SPAN316 or SPAN325.

This course begins with an introduction to general concepts in linguistics, from language function and the brain to communication, culture, and thought, and their relation to other disciplines in the social sciences. The main purpose of this course is to provide an overview of Hispanic linguistics through multiple perspectives, while exploring the areas of Spanish morphology, syntax, and semantics. This course will also focus on the structural tendencies of Spanish through a variety of practical activities. Taught in Spanish.

Also offered as SPAN625. Credit granted for SPAN425 or SPAN625.

0101	Manel Lacorte	Seats (Total: 20)
	TuTh 3:30pm - 4:45pm	JMZ 2123

SPAN449J **Special Topics in Spanish Civilization; Mosaic: Jews, Muslims and the Spanish Experience**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An intensive study of a selected topic related to Spanish civilization.

Contact department for information to register for this course.

SPAN449Z **Special Topics in Spanish Civilization; Barcelona/ Madrid: Literature & Film in the Contemporary City**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An intensive study of a selected topic related to Spanish civilization.

Contact department for information to register for this course.

SPAN462 **Twentieth Century Drama**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SPAN333, SPAN361, SPAN331, SPAN332, SPAN362, or SPAN363.

Significant plays of the twentieth century.

Contact department for information to register for this course.

SPAN463 **Latin American Drama**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SPAN333, SPAN361, SPAN331, SPAN332, SPAN362, or SPAN363.

Emphasis will be placed on Latin American plays of the twentieth century.

Contact department for information to register for this course.

SPAN464 **Contemporary Spanish Poetry**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SPAN333, SPAN361, SPAN331, SPAN332, SPAN362, or SPAN363.

Spanish poetry from the generation of 1927 to the present.

Contact department for information to register for this course.

SPAN466 **The Contemporary Spanish Novel**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SPAN333, SPAN361, SPAN331, SPAN332, SPAN362, or SPAN363.

The novel and the short story from 1940 to the present.

Contact department for information to register for this course.

SPAN469C **Study Abroad Special Topics IV; Composition**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN469D **Study Abroad Special Topics IV; Chilean History**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN470 **Spanish for Business II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed SPAN370. Restriction: Sophomore standing or higher. Credit only granted for: SPAN415 or SPAN470. Formerly: SPAN415.

Business Spanish terminology, vocabulary and practices. Emphasis on everyday spoken and written Spanish. Readings and discussions of international topics. Cross-cultural considerations relative to international business operations, including exporting and banking. Taught in Spanish.

0101	Fabian Faccio	Seats (Total: 25)
	MWF 10:00am - 10:50am	SQH 2120

SPAN479 **Honors Thesis**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail, Audit

Researching and writing an honors thesis under the direction of a professor.

Contact department for information to register for this course.

SPAN495 **Honors Reading**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must be in Spanish and Portuguese Honors; or permission of ARHU-School of Languages, Literatures, and Cultures department.

Supervised reading.

Contact department for information to register for this course.

SPAN611 **Current Trends in Hispanic Applied Linguistics**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of ARHU-Spanish & Portuguese Languages & Literatures department.

Introduction to current trends in Hispanic Applied Linguistics, emphasizing learning and teaching in Spanish-language contexts.

0101	Elisa Gironzetti	Seats (Total: 10)
	Th 6:30pm - 9:00pm	JMZ 2206

SPAN625 **Introduction to Hispanic Linguistics I:Basic Concepts**

Credits: 3 Grading Method: Regular, Audit

Introduction to basic terms and definition in Hispanic Linguistics. Fundamental aspects of phonology, morphology, syntax, semantics, sociolinguistics, and pragmatics.

Also offered as SPAN425. Credit granted for SPAN425 or SPAN625.

0101	Manel Lacorte	Seats (Total: 20)
	TuTh 3:30pm - 4:45pm	JMZ 2123

SPAN699 **Independent Study in Spanish**

Credits: 1-3 Grading Method: Regular, Audit

This course is designed to provide graduate students an opportunity to pursue independent study under the supervision of a member of the department.

Contact department for information to register for this course.

SPAN788N **Seminar Series in Spanish and Latin American Languages, Literatures, and Cultures; Nineteenth Century Itineraries: Latin America and the World**

Credits: 1

Grading Method: Regular, Audit

Topics to be announced when course is offered.

Students must be available to meet on the following dates from 2:00-5:00pm: Thursday, September 20, 2018, Friday, October 5, 2018, Monday, October 15, 2018, Friday, November 2, 2018, and Friday, December 7, 2018.

0101	Eyda Merediz	Seats (Total: 5)
	Contact instructor or department for details.	

SPAN798A **Open Seminar; Post-Revolutionary Mexican Literature: Stock Stories and Counterstories**

Credits: 3

Grading Method: Regular, Audit

Literary histories bound to and for national definition are dynamic fields of contestation. For example, individual literary texts often exhibit formal and thematic traits that simultaneously underwrite and resist hegemonic discourse and practice. When scholars and critics incorporate individual texts into a national literary history, this tension between underwriting and resistance takes on even greater significance. This graduate seminar about Mexican literature considers the critical categories of stock stories and counterstories as a point of departure for advancing students understanding of how to consider literary texts in relation to politics. One of the seminars guiding questions is: to what extent is it viable to imagine and comprehend literature as something apart from territorialization. The seminars primary texts are selected from the 1920s to the present, and they correspond to several genres, including novel, chronicle, and testimonial.

0101	Ryan Long	Seats (Total: 10)
	M 5:00pm - 7:30pm	JMZ 2123

SPAN798B **Open Seminar; How Early is Early Modern? Spain and Hispanoamerica del Norte**

Credits: 3

Grading Method: Regular, Audit

What can the Middle Ages teach us about the present? Why do we use the term "Early Modern" and to which cultures do we apply it today? Were 14th and 15thcentury Castilian literary works Early? Were they modern? Did they have an impact in the New World? What was Spanish North America and the Spanish Borderlands? Can we connect 13th-14th and 15th century Spain with 16th century Peru, Florida and the US East Coast? We have numerous literary texts, chronicles, private letters, maps and other documents that can help us discuss these questions. Among others, we will read selections or complete primary literary works related to history (Juan Manuel, Garcilaso de la Vega el Inca, Fray Jeronimo de Ore); novels by Diego de San Pedro (Carcel de amor), Garci Rodriguez de Montalvo (Esplandian). We will also examine English and French narratives (in translation) related to the same events that were originally written in Spanish. A wide range of contemporary scholarly essays will be part of our reading list.

0101	Carmen Benito-Vessels	Seats (Total: 10)
	Tu 3:30pm - 6:00pm	JMZ 1226

SPAN798C **Open Seminar; Central American Diasporas Across the Transisthmus**

Credits: 3 Grading Method: Regular, Audit

This course examines Central American literary and cultural production as a transnational or transisthmian field of knowledge production, research, and engaged social practices. We will read representative text from Belize, Costa Rica, El Salvador, Guatemala, Honduras, Nicaragua, Panama, and their respective diasporic communities across a spectrum of genres and historical periods to gain a wide view of the region and its cultural imaginaries. Among the topics explored will be violence, displacement, diaspora, space, and cultural resilience.

0101	Ana Rodriguez	Seats (Total: 10)
	W 5:00pm - 7:30pm	JMZ 2125

SPAN798U **Open Seminar; Capstone**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

0101	Ryan Long	Seats (Total: 1)
	Contact instructor or department for details.	

SPAN799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

SPAN898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

SPAN899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

SPHL Public Health Fall 2018

SPHL100 Foundations of Public Health

Credits: 3 Grading Method: Regular

Restriction: Must be in a major in SPHL-School of Public Health. Credit only granted for: SPHL100, PHSC300 or SPHL600.

An overview of the goals, functions, and methods of public health. After an introduction to the core concepts and tools used in public health research and practice, applications of these methodologies are considered in the context of current controversies/problems in public health. Students work together to develop strategies for prevention and control that take into consideration different points of view, outside research, and impacts on individuals and communities.

0101	Robert Gold MW 10:00am - 10:50am F 8:00am - 8:50am	Seats (Total: 20) BRB 1101 SPH 0305	Discussion
0102	Robert Gold MW 10:00am - 10:50am F 9:00am - 9:50am	Seats (Total: 20) BRB 1101 SPH 0305	Discussion
0103	Robert Gold MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 20) BRB 1101 SPH 0305	Discussion
0104	Robert Gold MW 10:00am - 10:50am F 11:00am - 11:50am	Seats (Total: 20) BRB 1101 SPH 0308	Discussion
0105	Robert Gold MW 10:00am - 10:50am F 1:00pm - 1:50pm	Seats (Total: 20) BRB 1101 SPH 0305	Discussion
0106	Robert Gold MW 10:00am - 10:50am F 2:00pm - 2:50pm	Seats (Total: 20) BRB 1101 SPH 0305	Discussion
0107	Robert Gold MW 10:00am - 10:50am F 3:00pm - 3:50pm	Seats (Total: 20) BRB 1101 SPH 0305	Discussion

0108	Robert Gold MW 10:00am - 10:50am F 4:00pm - 4:50pm	Seats (Total: 20) BRB 1101 SPH 0305	Discussion
0109	Robert Gold MW 10:00am - 10:50am F 9:00am - 9:50am	Seats (Total: 20) BRB 1101 SPH 0307	Discussion
0110	Robert Gold MW 10:00am - 10:50am F 1:00pm - 1:50pm	Seats (Total: 20) BRB 1101 SPH 0307	Discussion
0111	Robert Gold MW 10:00am - 10:50am F 2:00pm - 2:50pm	Seats (Total: 20) BRB 1101 SPH 0307	Discussion
0112	Robert Gold MW 10:00am - 10:50am F 3:00pm - 3:50pm	Seats (Total: 20) BRB 1101 SPH 0307	Discussion
0113	Robert Gold MW 10:00am - 10:50am F 4:00pm - 4:50pm	Seats (Total: 20) BRB 1101 SPH 0307	Discussion
0116	Robert Gold MW 10:00am - 10:50am F 9:00am - 9:50am	Seats (Total: 20) BRB 1101 SPH 0303	Discussion
0117	Robert Gold MW 10:00am - 10:50am F 8:00am - 8:50am	Seats (Total: 20) BRB 1101 SPH 0303	Discussion
0118	Robert Gold MW 10:00am - 10:50am F 1:00pm - 1:50pm	Seats (Total: 20) BRB 1101 SPH 0301	Discussion

SPHL240 **Public Health Engagement**

Credits: 2 Grading Method: Regular

Restriction: Restricted to transfer students with 60 credits or less.

Designed to immediately engage transfer students into the professional culture of public health, this course will focus upon successfully negotiating a large public institution while emphasizing the importance of 1) intellectual scholarship, 2) cultivation of mentor relationships, 3) internships, 4) career opportunities, and 5) direct engagement in the improvement of personal health through physical activity.

0101	Jaime Oliver, Andrea Romeo	Seats (Total: 24)	
	TuTh 11:00am - 12:15pm	SPH 0107	

SPHL600 **Foundations of Public Health**

Credits: 3 Grading Method: Regular

Restriction: Must be a graduate student within the School of Public Health. Credit only granted for: SPHL100, PHSC300 or SPHL600.

An overview of the goals, functions, and methods of public health. After an introduction to the core concepts and tools used in public health research and practice, applications of these methodologies are considered in the context of current controversies/problems in public health. Students work together to develop strategies for prevention and control that taken into consideration different points of view, outside research, and impacts on individuals and communities.

0101	Robert Gold	Seats (Total: 20)	
	Class time/details on ELMs Th 3:00pm - 4:00pm	ONLINE SPH 0305	Discussion

SPHL601 **Core Concepts in Public Health**

Credits: 1 Grading Method: Regular

Restriction: Must be a Master's of Public Health (MPH) or Master's of Health Administration (MHA) student within the School of Public Health.

Introduces students to the history, functions, systems, policies, and models of public health practice in the United States and globally. The course offers seminars, interactive activities, and assessments aimed at establishing a baseline understanding of public health necessary for higher level and integrative learning in subsequent public health courses.

0101	Barbara Curbow	Seats (Total: 80)	
	Meets August 27, 2018 - October 12, 2018		
	M 6:30pm - 8:30pm	SPH 1312	

PLH1	Luisa Franzini, Barbara Curbow **Meets October 15, 2018 - November 30, 2018** Class time/details on ELMs	Seats (Total: 40) ONLINE
	Must be in Public Health Policy & Practice program. For permission to enroll, contact oes@umd.edu.	

SPHL602 **Foundations of Epidemiology and Biostatistics**

Credits: 4 Grading Method: Regular

Recommended: Recommend SPHL603 as a co-requisite course. Restriction: Must be a graduate student within the School of Public Health. Credit only granted for: SPHL602 or EPIB610 and EPIB650.

An introduction to conceptual and practical tools from epidemiology and biostatistics that are necessary for the study of public health problems. Students learn epidemiologic concepts and methods, and basic statistical concepts and procedures used in public health research through applications, hands-on experience, and interpretations of statistical findings.

0101	Raul Cruz-Cano, Typhanye Dyer MW 4:30pm - 6:30pm	Seats (Total: 80) SPH 1312
PLH1	Raul Cruz-Cano, Rodman Turpin Class time/details on ELMs	Seats (Total: 40) ONLINE
	Must be in Public Health Policy & practice Program. For permission to enroll, contact oes@umd.edu.	

SPHL603 **Public Health Data Laboratory**

Credits: 1 Grading Method: Regular

Corequisite: SPHL602. Restriction: Must be a graduate student within the School of Public Health.

An introduction to the statistical software necessary to implement the epidemiology and biostatistics concepts covered in the course EPIB 602, Foundations of Epidemiology and Biostatistics through hands-on exercises.

0101	Raul Cruz-Cano W 6:30pm - 7:30pm	Seats (Total: 20) SPH 0302	Lab
0102	Raul Cruz-Cano W 6:30pm - 7:30pm	Seats (Total: 20) SPH 0303	Lab

0103	Raul Cruz-Cano W 7:30pm - 8:30pm	Seats (Total: 20) SPH 0302	Lab
0104	Raul Cruz-Cano W 7:30pm - 8:30pm	Seats (Total: 20) SPH 0303	Lab
PLH1	Raul Cruz-Cano Class time/details on ELMs *Must be in Public Health Policy & Practice program. For permission to enroll, contact oes@umd.edu.*	Seats (Total: 40) ONLINE	Lab

STAT Statistics and Probability Fall 2018

STAT100 Elementary Statistics and Probability

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: MS | General Education: FSAR, FSMA

Prerequisite: MATH110, MATH112, MATH113, or MATH115; or permission of CMNS-Mathematics department; or must have math eligibility of STAT100 or higher and math eligibility is based on the Math Placement Exam or the successful completion of Math 003 with appropriate eligibility. Restriction: Must not have completed MATH111; or must not have completed any MATH or STAT course with a prerequisite of MATH141. Credit only granted for: STAT100, MATH107 or MATH111.

Simplest tests of statistical hypotheses; applications to before-and-after and matched pair studies. Events, probability, combinations, independence. Binomial probabilities, confidence limits. Random variables, expected values, median, variance. Tests based on ranks. Law of large numbers, normal approximation. Estimates of mean and variance.

0111	Matthew Griffin MWF 12:00pm - 12:50pm MWF 8:00am - 8:50am	Seats (Total: 30) ESJ 0202 PHY 4206	Discussion
0121	Matthew Griffin MWF 12:00pm - 12:50pm MWF 9:00am - 9:50am	Seats (Total: 30) ESJ 0202 PHY 4206	Discussion
0131	Matthew Griffin MWF 12:00pm - 12:50pm MWF 10:00am - 10:50am	Seats (Total: 30) ESJ 0202 PHY 4206	Discussion

0141	Matthew Griffin MWF 12:00pm - 12:50pm MWF 11:00am - 11:50am	Seats (Total: 30) ESJ 0202 PHY 4206	Discussion
0151	Matthew Griffin MWF 12:00pm - 12:50pm MWF 1:00pm - 1:50pm	Seats (Total: 30) ESJ 0202 PHY 4206	Discussion
0161	Matthew Griffin MWF 12:00pm - 12:50pm MWF 2:00pm - 2:50pm	Seats (Total: 30) ESJ 0202 PHY 4206	Discussion
0171	Matthew Griffin MWF 12:00pm - 12:50pm TuTh 8:00am - 9:15am	Seats (Total: 30) ESJ 0202 PHY 4206	Discussion
0181	Matthew Griffin MWF 12:00pm - 12:50pm TuTh 9:30am - 10:45am	Seats (Total: 30) ESJ 0202 PHY 4206	Discussion
0191	Matthew Griffin MWF 12:00pm - 12:50pm TuTh 11:00am - 12:15pm	Seats (Total: 30) ESJ 0202 PHY 4206	Discussion
0192	Matthew Griffin MWF 12:00pm - 12:50pm TuTh 12:30pm - 1:45pm	Seats (Total: 30) ESJ 0202 PHY 4206	Discussion
0211	Archana Khurana MWF 1:00pm - 1:50pm MWF 10:00am - 10:50am	Seats (Total: 30) ESJ 0202 PHY 4206	Discussion
0221	Archana Khurana MWF 1:00pm - 1:50pm MWF 11:00am - 11:50am	Seats (Total: 30) ESJ 0202 PHY 4206	Discussion
0231	Archana Khurana MWF 1:00pm - 1:50pm MWF 12:00pm - 12:50pm	Seats (Total: 30) ESJ 0202 PHY 4206	Discussion

0232	Archana Khurana MWF 1:00pm - 1:50pm MWF 12:00pm - 12:50pm	Seats (Total: 30) ESJ 0202 PHY 4206	 Discussion
0241	Archana Khurana MWF 1:00pm - 1:50pm MWF 2:00pm - 2:50pm	Seats (Total: 30) ESJ 0202 PHY 4206	 Discussion
0251	Archana Khurana MWF 1:00pm - 1:50pm TuTh 8:00am - 9:15am	Seats (Total: 30) ESJ 0202 PHY 4206	 Discussion
0261	Archana Khurana MWF 1:00pm - 1:50pm TuTh 9:30am - 10:45am	Seats (Total: 30) ESJ 0202 PHY 4206	 Discussion
0271	Archana Khurana MWF 1:00pm - 1:50pm TuTh 11:00am - 12:15pm	Seats (Total: 30) ESJ 0202 PHY 4206	 Discussion
0281	Archana Khurana MWF 1:00pm - 1:50pm TuTh 12:30pm - 1:45pm	Seats (Total: 30) ESJ 0202 PHY 4206	 Discussion
0301	Jonathan Fernandes MWF 12:00pm - 12:50pm TuTh 2:00pm - 3:15pm	Seats (Total: 30) MTH 0409 MTH 0302	 Discussion
FC01	Matthew Griffin TuTh 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 33) ITV 1100	
FC02	Matthew Griffin TuTh 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 33) MTH B0421	
FC03	Matthew Griffin TuTh 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 33) MTH B0421	

STAT386 **Experiential Learning**

Credits: 3-6 Grading Method: Regular, Pass-Fail

Prerequisite: Must have learning proposal approved by the CMNS-Mathematics Department.

2801	Abram Kagan Contact instructor or department for details.	Seats (Total: 10)	
5001	Paul Smith Contact instructor or department for details.	Seats (Total: 10)	

STAT400 **Applied Probability and Statistics I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH131, MATH141); or students who have taken courses with comparable content may contact the department. Credit only granted for: BMGT231, ENEE324, or STAT400. Additional information: Not acceptable toward graduate degrees in MATH/STAT/AMSC.

Random variables, standard distributions, moments, law of large numbers and central limit theorem. Sampling methods, estimation of parameters, testing of hypotheses.

0111	Peter Nandori MWF 12:00pm - 12:50pm Tu 9:30am - 10:20am	Seats (Total: 25) ESJ 0224 MTH 0104	Discussion
0112	Peter Nandori MWF 12:00pm - 12:50pm Tu 9:30am - 10:20am	Seats (Total: 25) ESJ 0224 MTH 0403	Discussion
0113	Peter Nandori MWF 12:00pm - 12:50pm Tu 9:30am - 10:20am	Seats (Total: 25) ESJ 0224 EGR 1102	Discussion
0121	Peter Nandori MWF 12:00pm - 12:50pm Tu 12:30pm - 1:20pm	Seats (Total: 25) ESJ 0224 MTH 0103	Discussion
0122	Peter Nandori MWF 12:00pm - 12:50pm Tu 12:30pm - 1:20pm	Seats (Total: 25) ESJ 0224 ATL 2352	Discussion

0123	Peter Nandori MWF 12:00pm - 12:50pm Tu 12:30pm - 1:20pm	Seats (Total: 25) ESJ 0224 MTH 1308	Discussion
0131	Peter Nandori MWF 12:00pm - 12:50pm Tu 3:30pm - 4:20pm	Seats (Total: 25) ESJ 0224 MTH 0305	Discussion
0132	Peter Nandori MWF 12:00pm - 12:50pm Tu 3:30pm - 4:20pm	Seats (Total: 25) ESJ 0224 MTH 0201	Discussion
0133	Peter Nandori MWF 12:00pm - 12:50pm Tu 3:30pm - 4:20pm	Seats (Total: 25) ESJ 0224 MTH 0106	Discussion
0211	John Millson TuTh 11:00am - 12:15pm M 8:00am - 8:50am	Seats (Total: 31) ARM 0126 MTH 0103	Discussion
0212	John Millson TuTh 11:00am - 12:15pm M 8:00am - 8:50am	Seats (Total: 27) ARM 0126 MTH 0104	Discussion
0213	John Millson TuTh 11:00am - 12:15pm M 8:00am - 8:50am	Seats (Total: 31) ARM 0126 MTH 0105	Discussion
0221	John Millson TuTh 11:00am - 12:15pm M 9:00am - 9:50am	Seats (Total: 31) ARM 0126 MTH 0103	Discussion
0222	John Millson TuTh 11:00am - 12:15pm M 9:00am - 9:50am	Seats (Total: 27) ARM 0126 MTH 0104	Discussion
0223	John Millson TuTh 11:00am - 12:15pm M 9:00am - 9:50am	Seats (Total: 31) ARM 0126 MTH 0105	Discussion

0231	John Millson TuTh 11:00am - 12:15pm M 11:00am - 11:50am	Seats (Total: 31) ARM 0126 MTH 0201	Discussion
0232	John Millson TuTh 11:00am - 12:15pm M 11:00am - 11:50am	Seats (Total: 27) ARM 0126 MTH 0104	Discussion
0233	John Millson TuTh 11:00am - 12:15pm M 11:00am - 11:50am	Seats (Total: 31) ARM 0126 MTH 0105	Discussion
0311	Casey Cremins TuTh 12:30pm - 1:45pm W 8:00am - 8:50am	Seats (Total: 28) ARM 0126 MTH 0103	Discussion
0312	Casey Cremins TuTh 12:30pm - 1:45pm W 8:00am - 8:50am	Seats (Total: 27) ARM 0126 MTH 0104	Discussion
0313	Casey Cremins TuTh 12:30pm - 1:45pm W 8:00am - 8:50am	Seats (Total: 29) ARM 0126 MTH 0201	Discussion
0321	Casey Cremins TuTh 12:30pm - 1:45pm W 9:00am - 9:50am	Seats (Total: 28) ARM 0126 MTH 0103	Discussion
0322	Casey Cremins TuTh 12:30pm - 1:45pm W 9:00am - 9:50am	Seats (Total: 27) ARM 0126 MTH 0104	Discussion
0323	Casey Cremins TuTh 12:30pm - 1:45pm W 9:00am - 9:50am	Seats (Total: 28) ARM 0126 MTH 0201	Discussion
0331	Casey Cremins TuTh 12:30pm - 1:45pm W 11:00am - 11:50am	Seats (Total: 28) ARM 0126 MTH 0105	Discussion

0332	Casey Cremins TuTh 12:30pm - 1:45pm W 11:00am - 11:50am	Seats (Total: 27) ARM 0126 MTH 0104	 Discussion
0333	Casey Cremins TuTh 12:30pm - 1:45pm W 11:00am - 11:50am	Seats (Total: 28) ARM 0126 MTH 0201	 Discussion

STAT401 **Applied Probability and Statistics II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (STAT400, STAT410). Additional information: Not acceptable toward graduate degrees in MATH/STAT/AMSC.

Point estimation - unbiased and consistent estimators. Interval estimation. Minimum variance and maximum likelihood estimators. Testing of hypotheses. Regression, correlation and analysis of variance. Sampling distributions. Elements of non-parametric methods.

0101	Adam Telatovich MWF 10:00am - 10:50am	Seats (Total: 32) MTH 0307	
0201	Archana Khurana MWF 11:00am - 11:50am	Seats (Total: 32) MTH 0307	
0301	Adam Telatovich MWF 1:00pm - 1:50pm	Seats (Total: 32) MTH 0106	
0401	Hatice Sahinoglu TuTh 11:00am - 12:15pm	Seats (Total: 32) ITV 1100	
0501	Joan Ren TuTh 2:00pm - 3:15pm	Seats (Total: 32) MTH 0303	

STAT410 **Introduction to Probability Theory**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH240, MATH461, MATH341); and 1 course with a minimum grade of C- from (MATH340, MATH241). Also offered as: SURV410. Credit only granted for: STAT410 or SURV410.

Probability and its properties. Random variables and distribution functions in one and several dimensions. Moments. Characteristic functions. Limit theorems.

0101	Abram Kagan TuTh 9:30am - 10:45am	Seats (Total: 35) EGR 1104
0201	Archana Khurana MWF 2:00pm - 2:50pm	Seats (Total: 33) MTH 0103
0301	Mark Freidlin TuTh 11:00am - 12:15pm	Seats (Total: 34) PHY 1201
0401	Dmitry Dolgopyat TuTh 12:30pm - 1:45pm	Seats (Total: 33) MTH 0101
0501	Jian Lun Xu TuTh 5:00pm - 6:15pm	Seats (Total: 34) MTH 0106

STAT420 **Introduction to Statistics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (SURV410, STAT410). Also offered as: SURV420. Credit only granted for: STAT420 or SURV420.

Point estimation, sufficiency, completeness, Cramer-Rao inequality, maximum likelihood. Confidence intervals for parameters of normal distribution. Hypothesis testing, most powerful tests, likelihood ratio tests. Chi-square tests, analysis of variance, regression, correlation. Nonparametric methods.

0101	Takumi Saegusa TuTh 9:30am - 10:45am	Seats (Total: 30) JMP 2202

STAT426 **Introduction to Data Science and Machine Learning**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MATH240 and MATH241; or MATH340 and MATH341.

An introductory course connecting students to the most recent developments in the fields of data science and machine learning.

0101	Wojciech Czaja MWF 11:00am - 11:50am	Seats (Total: 25) CHM 0119

STAT430 **Introduction to Statistical Computing with SAS**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (STAT400, STAT410).

Descriptive and inferential statistics. SAS software: numerical and graphical data summaries; merging, sorting and splitting data sets. Least squares, regression, graphics and informal diagnostics, interpreting results. Categorical data, lifetime data, time series. Applications to engineering, life science, business and social science.

0101	Bradford Sanders MWF 10:00am - 10:50am	Seats (Total: 31) MTH 0402
0201	Timothy Pilachowski MWF 1:00pm - 1:50pm	Seats (Total: 31) MTH 0303
0301	Emily Francis MWF 2:00pm - 2:50pm	Seats (Total: 31) MTH 0307
0401	Benjamin Kedem TuTh 11:00am - 12:15pm	Seats (Total: 31) EGR 2154
0601	Christine Nickel TuTh 5:00pm - 6:15pm	Seats (Total: 31) MTH 0101

STAT440 **Sampling Theory**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (STAT401, STAT420). Credit only granted for: STAT440 or SURV440.

Simple random sampling. Sampling for proportions. Estimation of sample size. Sampling with varying probabilities. Sampling: stratified, systematic, cluster, double, sequential, incomplete.

0101	Natalia Tchetcherina MWF 10:00am - 10:50am	Seats (Total: 25) ITV 1100

0201	Natalia Tchetcherina	Seats (Total: 25)
	MWF 2:00pm - 2:50pm	ITV 1100

STAT464 **Introduction to Biostatistics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed one semester of calculus. Restriction: Junior standing or higher. Credit only granted for: BIOE372 or STAT464. Additional information: Not acceptable toward degrees in MATH/STAT.

Probabilistic models. Sampling. Some applications of probability in genetics. Experimental designs. Estimation of effects of treatments. Comparative experiments. Fisher-Irwin test. Wilcoxon tests for paired comparisons.

0101	Raluca Rosca	Seats (Total: 25)
	MWF 11:00am - 11:50am	ESJ 1309

STAT498A **Selected Topics in Statistics**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

Topics of special interest to advanced undergraduate students will be offered occasionally under the general guidance of the MATH/STAT major committee. Students register for reading in statistics under this number.

Contact department for information to register for this course.

STAT600 **Probability Theory I**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: STAT410.

Probability space; distribution functions and densities; Poissson limit theoreom; de Moivre-Laplace theorem; measure-theoretic definition of expectation; classification of measures on R; convergence of random variables; Radon-Nikodym theorem;LP spaces; conditional probabilities; independence of events, sigma-algebras and random variables; Bayes' theo rem; pi-systems and Dynkin systems; discrete Markov chains; random walks; gambler's ruin problem; Markov chains on a general phase space; Borel-cantelli lemmas; Kolmogorov inequality; three series theorem; laws of large numbers.

0101	Leonid Koralov	Seats (Total: 25)
	MWF 1:00pm - 1:50pm	MTH 0103

STAT689 **Research Interactions in Statistics**

(Perm req)

Credits: 1-3

Grading Method: Regular, Audit

The students participate in a vertically integrated (undergraduate, graduate and/or postdoctoral, faculty) research group. Format varies, but includes regular meetings, readings and presentations of material. See graduate program's online syllabus or contact the graduate program director for more information.

Contact department for information to register for this course.

STAT700 **Mathematical Statistics I**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: STAT410; or students who have taken courses with comparable content may contact the department.

Sampling distributions including noncentral chi-squared, t, F. Exponential families, completeness. Sufficiency, factorization, likelihood ratio. Decision theory, Bayesian methods, minimax principle. Point estimation. Lehmann-Scheffe and Cramer-Rao theorems. Set estimation.

Offered fall only.

0101	Joan Ren	Seats (Total: 25)
	TuTh 12:30pm - 1:45pm	MTH 0403

STAT705 **Computational Statistics**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: STAT700 or STAT420. Recommended: Have some programming experience (any language). Credit only granted for: STAT705 or STAT798C. Formerly: STAT798C.

Modern methods of computational statistics and their application to bot practical problems and research. S-Plus and SAS programming with emphasis on S-Plus. S-Plus objects and functions, and SAS procedures. Topics include data management and graphics, Monte Carlo and simulation, bootstrapping, numerical optimization in statistics, linear and generalized linear models, nonparametric regression, time series analysis.

0101	Benjamin Kedem	Seats (Total: 25)
	TuTh 2:00pm - 3:15pm	MTH 0402

STAT740 **Linear Statistical Models I**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: STAT700 or STAT420.

Least squares, general linear models, estimability and Gauss-Markov theorem. Simple and multiple linear regression, analysis of residuals and diagnostics, polynomial models, variable selection. Qualitative predictors, one and two way analysis of variance, multiple comparisons, analysis of covariance. Nonlinear least squares. High-level statistical computer software will be used for data analysis throughout the course.

0101	Paul Smith	Seats (Total: 25)
	MWF 2:00pm - 2:50pm	MTH 0409

STAT770 **Analysis of Categorical Data**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: STAT430 and STAT420; or permission of CMNS-Mathematics department.

Loglinear and logistic models. Single classification, two-way classification; contingency tables; tests of homogeneity and independence models, measures of association, distribution theory. Bayesian methods. Incomplete contingency tables. Square contingency tables - symmetry. Extensions to higher dimensional contingency tables.

0101	Eric Slud	Seats (Total: 20)
	MW 5:00pm - 6:15pm	MTH 0303

STAT799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

STAT808A **Selected Topics in Probability**

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics of current interest.

Contact department for information to register for this course.

STAT818A **Selected Topics in Statistics**

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics of current interest.

Contact department for information to register for this course.

STAT818M **Selected Topics in Statistics; Bayesian Methods**

Credits: 3 Grading Method: Regular, Audit

Advanced topics of current interest.

0101	Partha Lahiri	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	EGR 2116

STAT898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

STAT899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

SURV Survey Methodology Fall 2018

SURV400 **Fundamentals of Survey and Data Science**

Credits: 3 Grading Method: Regular

Prerequisite: STAT100; or permission of BSOS-Joint Program in Survey Methodology department. Restriction: Course open to SURV certificate students, SURV Advanced Special Students, and SURV undergraduate minors. Graduate students from other departments may enroll with permission from the department. Credit only granted for: SURV699M or SURV400. Formerly: SURV699M.

The course introduces the student to a set of principles of survey and data science that are the basis of standard practices in these fields. The course exposes the student to key terminology and concepts of collecting and analyzing data from surveys and other data sources to gain insights and to test hypotheses about the nature of human and social behavior and interaction. It will also present a framework that will allow the student to evaluate the influence of different error sources on the quality of data.

SVW1	Carolina Casas-Cordero **Meets September 3, 2018 - November 29, 2018** M 1:00pm - 2:00pm Contact instructor or department for details. *Students must have access to a standalone web camera and a headset to participate in the weekly online meetings.*	Seats (Total: 15) ONLINE

SURV410 **Introduction to Probability Theory**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH240 and MATH241; or permission of BSOS-Joint Program in Survey Methodology department. Also offered as: STAT410. Credit only granted for: SURV410 or STAT410.

Probability and its properties. Random variables and distribution functions in one and several dimensions. Moments, characteristic functions, and limit theorems.

0101	Abram Kagan TuTh 9:30am - 10:45am	Seats (Total: 35) EGR 1104
0201	Archana Khurana MWF 2:00pm - 2:50pm	Seats (Total: 33) MTH 0103
0301	Mark Freidlin TuTh 11:00am - 12:15pm	Seats (Total: 34) PHY 1201
0401	Dmitry Dolgopyat TuTh 12:30pm - 1:45pm	Seats (Total: 33) MTH 0101
0501	Jian Lun Xu TuTh 5:00pm - 6:15pm	Seats (Total: 34) MTH 0106

SURV615 **Statistical Modeling I**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have completed a two course sequence in probability and statistics; or students who have taken courses with comparable content may contact the department. Restriction: Must be in Survey Methodology (Master's) program; or permission of instructor.

First course in a two term sequence in applied statistical methods covering topics such as regression, analysis of variance, categorical data, and survival analysis.

It runs concurrently with the University of Michigan course.

0101	Taylor Lewis **Meets September 3, 2018 - December 11, 2018** Tu 5:00pm - 7:30pm	Seats (Total: 20) LEF 1208
SV01	Taylor Lewis **Meets September 3, 2018 - December 11, 2018** Tu 5:00pm - 7:30pm *Meets at the Census Bureau-T10.*	Seats (Total: 5) Location: TBA

SURV617 **Applications of Statistical Modeling**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Prerequisite: SURV615 and SURV616; or permission of instructor. Credit only granted for: SURV617, SURV746, or SURV699R. Formerly: SURV699R and SURV746.

Designed for students on both the social science and statistical tracks for the two programs in survey methodology, will provide students with exposure to applications of more advanced statistical modeling tools for both substantive and methodological investigations that are not fully covered in other MPSM or JPSM courses. Modeling techniques to be covered include multilevel modeling (with an application to methodological studies of interviewer effects), structural equation modeling (with an application of latent class models to methodological studies of measurement error), classification trees (with an application to prediction of response propensity), and alternative models for longitudinal data (with an application to panel survey data from the Health and Retirement Study). Discussions and examples of each modeling technique will be supplemented with methods for appropriately handling complex sample designs when fitting the models. The class will focus on practical applications and software rather than extensive theoretical discussions.

0101	Brady West **Meets September 3, 2018 - December 10, 2018** F 10:00am - 12:45pm	Seats (Total: 20) LEF 2208

SURV621 **Fundamentals of Data Collection I**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Restriction: Permission of BSOS-Joint Program in Survey Methodology department.

First semester of a two-semester sequence that provides a broad overview of the processes that generate data for use in social science research. Students will gain an understanding of different types of data and how they are created, as well as their relative strengths and weaknesses. A key distinction is drawn between data that are designed, primarily survey data, and those that are found, such as administrative records, remnants of online transactions, and social media content. The course combines lectures, supplemented with assigned readings, and practical exercises. In the first semester, the focus will be on the error that is inherent in data, specifically errors of representation and errors of measurement, whether the data are designed or found. The psychological origins of survey responses are examined as a way to understand the measurement error that is inherent in answers. The effects of the mode of data collection (e.g., mobile web versus telephone interview) on survey responses also are examined.

0101	Frederick Conrad, Katharine Abraham	Seats (Total: 25)
	Meets September 10, 2018 - December 10, 2018	
	M 3:30pm - 6:30pm	LEF 1208

SURV623 **Data Collection Methods in Survey Research**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Prerequisite: SURV400; or students who have taken courses with comparable content may contact the department.

Review of alternative data collection methods used in surveys, such as current advances in computer-assisted telephone interviewing (CATI), computer-assisted personal interviewing (CAPI), and other methods such as touchtone data entry (TDE) and voice recognition (VRE).

SVW1	Christopher Antoun	Seats (Total: 15)
	Meets September 6, 2018 - November 29, 2018	
	Th 8:00am - 8:50am Contact instructor or department for details.	ONLINE
	Students must have acces to a standalone web camera and a headset to participate in the weekly online meetings.	

SURV626 **Sampling**

(Perm req)

Credits: 2

Grading Method: Regular, Audit

Prerequisite: Permission of BSOS-Joint Program in Survey Methodology department; and must have completed an introductory graduate level statistics course covering material through OLS and logistic regression.

Practical aspects of sample design. The course will cover the main techniques used in sampling practice: simple random sampling, stratification, systematic selection, cluster sampling, multistage sampling, and probability proportional to size sampling. The course will also cover sampling frames, cost models, and sampling error (variance) estimation techniques.

SVW1	Raphael Nishimura **Meets September 12, 2018 - October 31, 2018** W 7:00pm - 8:00pm Contact instructor or department for details. *Students must have access to a standalone web camera and a headset to participate in the weekly online meetings.*	Seats (Total: 15) ONLINE
SVW2	Raphael Nishimura **Meets September 13, 2018 - November 1, 2018** Th 1:00pm - 2:00pm Contact instructor or department for details. *Students must have access to a standalone web camera and a headset to participate in the weekly online meetings.*	Seats (Total: 15) ONLINE

SURV627 **Experimental Design for Surveys**

Credits: 2 Grading Method: Regular, Audit

Prerequisite: At least one prior course in data analysis. Recommended: Experience in the use of SAS or STATA statistical analysis software. Restriction: Permission of BSOS-Joint Program in Survey Methodology department.

A key tool of methodological research is the split-ballot experiment, in which randomly selected subgroups of a sample receive different questions, different response formats, or different modes of data collection. In theory, such experiments can combine the clarity of experimental designs with the inferential power of representative samples. All too often, though, such experiments use flawed designs that leave serious doubts about the meaning or generalization of the findings. The purpose of this course is to consider the issues involved in the design and analysis of data from experiments embedded in surveys. It covers the purposes of experiments in surveys, examines several classic survey experiments in detail, and takes a close look at some of the pitfalls and issues in the design of such studies. These pitfalls include problem, such as the confounding of the experimental variables, that jeopardize the comparability of the experimental groups, problems, such as non response, that cast doubts on the generality of the results, and problems in determining the reliability of the results. The course will also consider some of the design decisions that almost always arise in planning experiments; issues such as identifying the appropriate error term for significance tests and including necessary comparison groups.

SVW1	Frauke Kreuter	Seats (Total: 15)
	Meets September 4, 2018 - October 23, 2018	
	Tu 1:00pm - 2:00pm Contact instructor or department for details.	ONLINE
	Students must have access to a standalone web camera and a headset to participate in the weekly online meetings.	

SURV632 **Cognition, Communication and Survey Measurement**

Credits: 3 Grading Method: Regular, Audit

Major sources of survey error-such as reporting errors and nonresponse bias-from the perspective of social and cognitive psychology and related disciplines. Topics: psychology of memory and its bearing on classical survey issues (e.g., underreporting and telescoping); models of language use and their implications for the interpretation and misinterpretation of survey questions; and studies of attitudes, attitude change, and their possible application to increasing response rates and improving the measurement of opinions. Theories and findings from the social and behavioral sciences will be explored.

Restricted to SURV majors only.

0101	Frederick Conrad	Seats (Total: 15)
	Meets September 3, 2018 - December 11, 2018	
	W 9:00am - 11:45am	LEF 2208

SURV650 **Economic Measurement**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: Must have completed a course in intermediate microeconomics. Credit only granted for: SURV650 or SURV699L. Formerly: SURV699L.

An introduction to the field of economic measurement. Sound economic data are of critical importance to policymakers, the business community, and others. Emphasis is placed on the economic concepts that underlie key economic statistics and the translation of those concepts into operational measures. Topics addressed include business survey sampling; the creation of business survey sampling frames; the collection of data from businesses; employment and earnings statistics; price statistics; output and productivity measures; the national accounts; and the statistical uses of administrative data. Lectures and course readings assume prior exposure to the tools of economic analysis.

SV01	Katharine Abraham	Seats (Total: 24)
	Tu 9:00am - 11:40am	Location: TBA
	Meets at the Bureau of Labor Statistics in the BLS Conference and Training Center G440. Please check the signs at the entrance for each class location as classrooms will vary.	

SURV699 **Special Topics in Survey Methodology; Reading in Survey Methodology**

(Perm req)

Credits: 1-3

Grading Method: Regular, Audit

Credit according to time scheduled and organization of the course. Organized as a lecture series on specialized advanced topics in survey methodology.

0101	Frederick Conrad	Seats (Total: 10)
	Contact instructor or department for details.	
0301	Stanley Presser	Seats (Total: 10)
	Contact instructor or department for details.	

SURV699C **Special Topics in Survey Methodology; Introduction to Python and SQL**

Credits: 1

Grading Method: Regular, Audit

Credit according to time scheduled and organization of the course. Organized as a lecture series on specialized advanced topics in survey methodology.

SVW1	Brian Kim	Seats (Total: 10)
	Meets October 2, 2018 - October 23, 2018	
	Tu 1:00pm - 2:00pm Contact instructor or department for details.	ONLINE
	Students must have access to a standalone web camera and a headset to participate in the weekly online meetings.	

SURV699F **Special Topics in Survey Methodology; Privacy Law**

(Perm req)

Credits: 1 Grading Method: Regular, Audit

Credit according to time scheduled and organization of the course. Organized as a lecture series on specialized advanced topics in survey methodology.

SVW1	Instructor: TBA	Seats (Total: 5)
	Meets October 10, 2018 - October 31, 2018	
	W 12:00pm - 12:50pm Contact instructor or department for details.	ONLINE
	Students must have acces to a standalone web camera and a headset to participate in the weekly online meetings.	

SURV699L **Special Topics in Survey Methodology; Statistical Data Integration**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Credit according to time scheduled and organization of the course. Organized as a lecture series on specialized advanced topics in survey methodology.

Prerequisite: SURV/STAT410 and SURV/STAT420 or equivalent; Permisson of instructor required. A single available data source is often not sufficient in order to carry out required statistical data analyses to make certain decisions. To avoid high costs of collecting new data in such cases, there is a growing need to combine multiple survey and/or administrative existing data sources using appropriate statistical techniques. In the first two-third of the course, we shall discuss various issues and methods in statistical data integration. In particular, we shall cover various methods available in statistical matching, a body of statistical techniques that use a few common variables in combining multiple data sources with no or negligible overlapping units.

0101	Partha Lahiri	Seats (Total: 20)
	Th 1:00pm - 3:30pm	LEF 2208

SURV699P **Special Topics in Survey Methodology; Computer-Based Content Analysis I**

(Perm req)

Credits: 1

Grading Method: Regular, Audit

Credit according to time scheduled and organization of the course. Organized as a lecture series on specialized advanced topics in survey methodology.

SVW1	Instructor: TBA	Seats (Total: 15)
	Meets November 29, 2018 - December 20, 2018	
	Th 1:00pm - 2:00pm	ONLINE
	Students must have access to a standalone web camera and a headset to participate in the weekly online meetings. To apply for permission and to request a seat, please visit: https://jointprogram.umd.edu/online/our-courses	

SURV699U **Special Topics in Survey Methodology; Machine Learning for Social Science**

Credits: 3

Grading Method: Regular, Audit

Credit according to time scheduled and organization of the course. Organized as a lecture series on specialized advanced topics in survey methodology.

Prerequisite: Students should work through one or more R tutorials prior or during the first weeks of class due to the short introduction to R presented in the class. Some resources can be found at the following: https://www.rstudio.com/online-learning/#R, https://cran.r-project.org/manuals.html, or http://www.statmethods.net. Provides an introduction to supervised statistical learning techniques such as decision trees, random forests and boosting and discusses their potential application in the social sciences. These methods focus on predicting an outcome Y based on some data-driven function f(X) and therefore facilitate new research perspectives in comparison with traditional regression models, which primarily focus on causation. Predictive methods also provide a valuable extension to the empirical social scientists' toolkit as new data sources become more prominent. In addition to introducing supervised learning methods, the course will include practical sessions to exemplify how to tune and evaluate prediction models using the statistical programming language R.

0101	Christoph Kern	Seats (Total: 30)
	Meets September 4, 2018 - December 10, 2018	
	Tu 2:00pm - 4:45pm	LEF 1208

SURV699Z **Special Topics in Survey Methodology; Applied Data Analytics**

(Perm req)

Credits: 6

Grading Method: Regular, Audit

Credit according to time scheduled and organization of the course. Organized as a lecture series on specialized advanced topics in survey methodology.

Innovative forms of data never seen before, combined with traditional survey and administrative data, provide a rich resource for data-driven decisions in public policy and the public sector. The program's design offers hands-on training in the context of real challenges facing the sector, by providing direct collaboration among government agencies and students in the program. Skills learned as part of the project work are SQL, Python, Record Linkage, Database Management, use of APIs, Web Scraping, Basic Machine Learning, Text Analysis, Analysis of Network and Geospatial data, Inference, Privacy and Ethics.

0101	Frauke Kreuter	Seats (Total: 10)
	Meets October 31, 2018 - December 11, 2018	
	MTuWThF 9:00am - 6:00pm Contact instructor or department for details.	LEF 1218
	Class will meet on the following dates: 10/31/18-11/6/18, 12/5/18-12/11/18.	

SURV720 **Total Survey Error and Data Quality I**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Prerequisite: SURV625. Restriction: Permission of instructor. Credit only granted for: (SURV720 and SURV721) or SURV723. Formerly: SURV723.

Total error structure of sample survey data, reviewing current research findings on the magnitudes of different error sources, design features that affect their magnitudes, and interrelationships among the errors. Coverage, nonresponse, sampling, measurement, and postsurvey processing errors. For each error source reviewed, social science theories about its causes and statistical models estimating the error source are described. Empirical studies from the survey methodological literature are reviewed to illustrate the relative magnitudes of error in different designs. Emphasis on aspects of the survey design necessary to estimate different error sources. Relationships to show how attempts to control one error source may increase another source. Attempts to model total survey error will be presented.

It runs concurrently with the University of Michigan course.

0101	Christopher Antoun	Seats (Total: 20)
	Meets September 6, 2018 - December 6, 2018	
	Th 10:20am - 12:15pm	LEF 1208

SURV725 **Item Nonresponse and Imputation**

(Perm req)

Credits: 1 Grading Method: Regular, Audit

Prerequisite: Be comfortable with generalized linear models and basic probability theory through coursework or work experience; and familiarity with the statistical software R. Restriction: Permission of BSOS-Joint Program in Survey Methodology department.

Missing data are a common problem which can lead to biased results if the missingness is not taken into account at the analysis stage. Imputation is often suggested as a strategy to deal with item nonresponse allowing the analyst to use standard complete data methods after the imputation. However, several misconceptions about the aims and goals of imputation make some users skeptical about the approach. In this course we will illustrate why thinking about the missing data is important and clarify which goals a useful imputation method should try to achieve.

SVW1	Joerg Drechsler	Seats (Total: 8)
	Meets October 31, 2018 - November 21, 2018	
	W 2:00pm - 3:00pm Contact instructor or department for details.	ONLINE
	Students must have access to a standalone web camera and a headset to participate in the weekly online meetings.	

SURV727 **Fundamentals of Computing and Data Display**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major within the BSOS-Joint Program in Survey Methodology department; or permission of BSOS-Joint Program in Survey Methodology department. Additional information: Students without any R knowledge are encouraged to work through one or more R web tutorials prior or during the first weeks of the course.

The first part of this course provides an introduction to web scraping and APIs for gathering data from the web and then discusses how to store and manage (big) data from diverse sources efficiently. The second part of the course demonstrates techniques for exploring and finding patterns in (non-standard) data, with a focus on data visualization. The course focuses on R as the primary computing environment, with excursus into SQL and Big Data processing tools.

The first part of this course provides an introduction to web scraping and APIs for gathering data from the web and then discusses how to store and manage (big) data from diverse sources efficiently. The second part of the course demonstrates techniques for exploring and finding patterns in (non-standard) data, with a focus on data visualization. The course focuses on R as the primary computing environment, with excursus into SQL and Big Data processing tools.

0101	Christoph Kern	Seats (Total: 20)
	Meets September 10, 2018 - December 10, 2018	
	M 12:30pm - 3:30pm	LEF 2208

SURV740 **Fundamentals of Inference**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: SURV410 and SURV420; or (SURV615 and SURV616); or permission of Instructor required. Restriction: Must be in a major within the BSOS-Joint Program in Survey Methodology department; or permission of BSOS-Joint Program in Survey Methodology department.

Focuses on the fundamentals of statistical inference in the finite population setting. Overview and review fundamental ideas of making inferences about populations. Basic principles of probability sampling; focus on differences between making predictions and making inferences; explore the differences between randomized study designs and observational studies; consider model-based vs. design-based analytic approaches; review techniques designed to improve efficiency using auxiliary information; and consider non-probability sampling and related inferential techniques.

Focuses on the fundamentals of statistical inference in the finite population setting. Overview and review fundamental ideas of making inferences about populations. Basic principles of probability sampling; focus on differences between making predictions and making inferences; explore the differences between randomized study designs and observational studies; consider model-based vs. design-based analytic approaches; review techniques designed to improve efficiency using auxiliary information; and consider non-probability sampling and related inferential techniques.

0101	Michael Elliott, Yan Li	Seats (Total: 20)
	Meets September 3, 2018 - December 10, 2018	
	F 1:00pm - 4:00pm	LEF 1208

SURV745 **Practical Tools for Sampling and Weighting**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: SURV615, SURV616, and SURV625; or permission of instructor. Credit only granted for: SURV745 or SURV699E. Formerly: SURV699E.

A statistical methods class appropriate for second year Master's students and PhD students. The course will be a combination of hands-on applications and general review of the theory behinddifferent approaches to sampling and weighting. Topics covered include sample size calculations using estimation targets based on relative standard error, margin of error, and power requirements. Use of mathematical programming to determine sample sizes needed to achieve estimation goals for a series of subgroups and analysis variables. Resources for designing area probability samples. Methods of sample allocation for multistage samples. Steps in weighting, including computation of base weights, non response adjustments, and uses of auxiliary data. Non response adjustment alternatives, including weighting cell adjustments, formation of cells using regression trees, and propensity score adjustments. Weighting via post stratification, raking, general regression estimation, and other types of calibration.

0101	Sunghee Lee	Seats (Total: 20)
	Meets September 3, 2018 - December 10, 2018	
	Tu 11:00am - 12:00pm	LEF 2208
	Contact instructor or department for details.	

SURV829 **Doctoral Research Seminar in Survey Methodology**

Credits: 3-6 Grading Method: Regular

An advanced research seminar for students preparing to do research or take doctoral comprehensive examinations.

0101	Stanley Presser, Brady West	Seats (Total: 10)
	Meets September 3, 2018 - December 11, 2018	
	W 1:30pm - 4:00pm	LEF 1208

SURV898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

SURV899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

TDPS Theatre, Dance and Performance Studies Fall 2018

TDPS201 **Introduction to Technical Production**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in a major within ARHU-Dance department; or must be in a major within ARHU-Theatre department. Credit only granted for: DANC210 and THET114 or TDPS201. Formerly: DANC210 and THET114.

Students are provided with an overview of topics related to the technical production of theatre and dance including: scenic, prop and costume construction, lighting, sound and video execution and management structures.

Students must pay a $25.00 lab fee.

5501	Michael Driggers	Seats (Total: 25)	
	MW 4:00pm - 4:50pm	PAC 1809	
	F 3:30pm - 5:30pm	PAC 1702	Lab

TDPS358L **Special Topics in Intermediate Performing Arts; Devising Hamlet - Physical Theatre**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Designed for performing arts students. Offers instruction at the intermediate level in various aspects of performance such as Voice for the Performing Arts, Movement for the Performing Arts, Acting for the Performing Arts, Partner Dance and a myriad of specific aspects within these genres.

Students must pay a $25 lab fee. Audition required. This course is based on the physical theatre techniques originally developed by Jacques Lecoq. There will be an emphasis on foundational exercises that involve strength, flexibility and endurance, as well as coordinating exaggerated physical gestures with vocal expression. All of the foundational techniques will then be applied to creating exaggerated physical characters. There will also be an emphasis on ensemble creation and what Lecoq calls le jeu th tral. This course is a requirement for people interested in auditioning for the 2019 production of Hamlet, which will be an adaptation of Shakespeares play, and involve extensive physical engagement. Auditions for the course are open to everyone. Email Leslie Felbain at lfelbain@umd.edu with questions.

5501	Leslie Felbain	Seats (Total: 20)
	TuTh 1:30pm - 3:20pm	PAC 3736

TDPS362 **Alexander Technique**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: THET222, THET116, THET223, and TDPS201; or (DANC218 and DANC219). And permission of ARHU-School of Theatre, Dance & Performance Studies department. Credit only granted for: THET399J, THET362 or TDPS362. Formerly: THET399J and THET362.

Based on the F.M. Alexander Technique, students will learn to recognize habit patterns that interfere with how they function and express themselves so that they can make conscious choices as a performing artist.

Students must pay a $25 lab fee.

5501	Leslie Felbain	Seats (Total: 20)
	TuTh 9:30am - 11:20am	PAC 3736

TDPS458O **Special Topics in Advanced Performing Arts; Voice, Text, Dance Making**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Designed for performing arts students. Offers instruction at an advanced level in various aspects of performance such as Voice for the Performing Arts, Movement for the Performing Arts, Acting for the Performing Arts, Partner Dance and a myriad of specific aspects within these genres.

Students must pay a $25 lab fee. Open to all UMD students.

5501	Alvin Mayes TuTh 3:30pm - 4:45pm	Seats (Total: 15) PAC 1611

TDPS469 **Advanced Practicum in Stage Management**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

A graded course in stage management for theatre and/or dance productions. A hands-on laboratory experience.

0101	Cary Gillett Contact instructor or department for details.	Seats (Total: 8)

TDPS479 **Production Practicum**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

A graded course in a specified practical aspect of mounting a theatre o dance production. It is a hands-on, purely laboratory experience.

1001	Robert Hunter Contact instructor or department for details.	Seats (Total: 25)
1002	Robert Hunter Contact instructor or department for details.	Seats (Total: 15)
1003	Robert Hunter Contact instructor or department for details.	Seats (Total: 15)
1004	Robert Hunter Contact instructor or department for details.	Seats (Total: 15)
1005	Robert Hunter Contact instructor or department for details.	Seats (Total: 15)

1006	Robert Hunter Contact instructor or department for details.	Seats (Total: 15)	
1007	Robert Hunter Contact instructor or department for details.	Seats (Total: 15)	
2001	Robert Hunter Contact instructor or department for details.	Seats (Total: 15)	
2002	Robert Hunter Contact instructor or department for details.	Seats (Total: 15)	
2003	Robert Hunter Contact instructor or department for details.	Seats (Total: 15)	
2004	Robert Hunter Contact instructor or department for details.	Seats (Total: 15)	
2005	Robert Hunter Contact instructor or department for details.	Seats (Total: 15)	
2006	Robert Hunter Contact instructor or department for details.	Seats (Total: 15)	

THET Theatre Fall 2018

THET110 **Introduction to the Theatre**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HA | General Education: DSHU

In the age of pop music and blockbuster films, of memes and viral videos, we often forget that theatre was one of the original forms of popular entertainment. We will focus on theatre practitioners including actors, directors, designers and backstage personnel to understand how theatre is produced. We will also consider popular entertainment in Europe and America, with a particular focus on musical theatre and Broadway to explore how theatre communicates, resonates, and remains relevant to all audiences.

0101	Caitlin Marshall MW 10:00am - 10:50am W 2:00pm - 2:50pm	Seats (Total: 24) ATL 2324 PLS 1115	 Discussion
0102	Caitlin Marshall MW 10:00am - 10:50am W 3:00pm - 3:50pm	Seats (Total: 24) ATL 2324 ATL 2428	 Discussion

0103	Caitlin Marshall MW 10:00am - 10:50am W 11:00am - 11:50am	Seats (Total: 24) ATL 2324 ATL 2416	Discussion
0104	Caitlin Marshall MW 10:00am - 10:50am W 12:00pm - 12:50pm	Seats (Total: 24) ATL 2324 ATL 2316	Discussion
0105	Caitlin Marshall MW 10:00am - 10:50am W 1:00pm - 1:50pm	Seats (Total: 24) ATL 2324 ATL 2416	Discussion
0201	Caitlin Marshall MW 11:00am - 11:50am W 2:00pm - 2:50pm	Seats (Total: 24) ATL 2324 ATL 1114	Discussion
0202	Caitlin Marshall MW 11:00am - 11:50am W 3:00pm - 3:50pm	Seats (Total: 24) ATL 2324 ATL 1114	Discussion
0203	Caitlin Marshall MW 11:00am - 11:50am W 1:00pm - 1:50pm	Seats (Total: 24) ATL 2324 ATL 0201	Discussion
0204	Caitlin Marshall MW 11:00am - 11:50am W 12:00pm - 12:50pm	Seats (Total: 24) ATL 2324 JMP 1109	Discussion
0205	Caitlin Marshall MW 11:00am - 11:50am W 1:00pm - 1:50pm	Seats (Total: 24) ATL 2324 KNI 1103	Discussion
FC01	Emily Warheit TuTh 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 24) JMZ 0125	

THET116 **Fundamentals of Theatrical Design**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of ARHU-School of Theatre, Dance & Performance Studies department.

Examines theatre as an environmental art that is realized through collaboration between set, costume, and lighting designers.

Students must pay a $25.00 lab fee.

5501	Benjamin Weigel, Christopher Brusberg TuTh 3:00pm - 4:50pm	Seats (Total: 20) PAC 2733	

THET222 **Foundations of Acting and Performance**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of ARHU-School of Theatre, Dance & Performance Studies department.

Students will become familiar with the tools and process of acting through the discipline of acting exercises, analyzing character and performing. Students will research various theatre artists that have contributed to the acting process. Through monologue and scene work students will learn listening skills, communicative, collaborative and embodiment skills and will learn how to use the self in the imaginative process and research. And, most importantly, students will learn creative process through practice.

Students must pay a $25.00 lab fee.

5501	Jennifer Newsham TuTh 2:00pm - 3:50pm	Seats (Total: 14) PAC 3730	Lab
5502	Scot Reese TuTh 10:00am - 11:50am	Seats (Total: 14) PAC 3730	Lab

THET223 **Text and Context in Western Theatre**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of ARHU-School of Theatre, Dance & Performance Studies department.

Introduction to the analysis and critique of the play script. Students will have the opportunity to read, analyze, and interpret western dramatic literature from a range of periods and styles. Texts are analyzed from a variety of theatrical analytical perspectives, with an eye towards choices theatre artists must make in the creation of a theatrical production.

0101	Kelley Holley TuTh 12:30pm - 1:45pm	Seats (Total: 25) PAC 1809	

0102	Jonelle Walker MW 11:00am - 12:15pm	Seats (Total: 25) PAC 1809

THET269B **Special Topics in Study Abroad II; The Meaning of Style**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

THET269T **Special Topics in Study Abroad II; 20th Century and Contemporary Spanish Theatre**

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

THET274 **Introduction to Stage Management**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: THET114 or TDPS201; and permission of ARHU-School of Theatre, Dance & Performance Studies department.

Familiarization with the techniques and skills required of a Stage Manager in a theatrical production, including organization, production meetings, rehearsals, tech and running a show. The outcome at the conclusion of the course is the ability to function as an Assistant Stage Manager in a supervised situation.

Students must pay a $25.00 lab fee.

5501	Cary Gillett TuTh 1:30pm - 2:45pm	Seats (Total: 12) PAC 1924

THET284 **Stage Costume Construction I**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of ARHU-School of Theatre, Dance & Performance Studies department.

Study and practical experience in garment construction and related costume crafts as used in theatre costume design. Flat pattern development, corset construction, theatrical sewing techniques and organization of the costume construction process.

Students must pay a $25.00 lab fee.

5501	Susan Chiang MW 9:00am - 11:50am	Seats (Total: 12) PAC 3749	Lab

THET285 **The Art of Communication and Presentation**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: FSOC

Credit only granted for: COMM107, COMM200, INAG110, JOUR130, or THET285.

An introduction to the fundamental practice and theory of public speaking and oral communication using theatrical techniques of both performance and the craft of storytelling.

0101	Victoria Scrimer MW 10:00am - 11:50am	Seats (Total: 25) PAC 3736
0102	Fraser Stevens TuTh 11:00am - 12:50pm	Seats (Total: 25) PAC 3732
0103	Mitchell Hebert MW 12:00pm - 1:50pm	Seats (Total: 25) PAC 3736
FC01	Emily Warheit MW 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 25) JMZ 0103
FC02	Jennifer Ring MW 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 25) BPS 1236
FC03	Emily Warheit TuTh 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 25) JMZ 2123
FC04	Drew Barker TuTh 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 25) JMZ 1215

FC05	Jennifer Ring TuTh 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 25) JMZ 0103
FC06	Jennifer Ring MW 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 25) JMZ 0122

THET286 **Experiential Learning I**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: THET222, THET223, and THET116. And THET114; or TDPS201. And permission of ARHU-School of Theatre, Dance & Performance Studies department.

Introductory internship in theatre. Constructed to help students in their sophomore year gain practical experience in a supportive work environment in the theatre. Student must research and propose internship to a Faculty Advisor and Internship Venue.

0101	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)
0210	Franklin Hildy Contact instructor or department for details.	Seats (Total: 5)
0301	Leigh Smiley Contact instructor or department for details. Contact instructor or department for details.	Seats (Total: 5)
0401	Scot Reese Contact instructor or department for details. Contact instructor or department for details.	Seats (Total: 5)
0501	Esther Lee Contact instructor or department for details.	Seats (Total: 5)
0601	Instructor: TBA Contact instructor or department for details. Contact instructor or department for details.	Seats (Total: 5)
0901	Mitchell Hebert Contact instructor or department for details. Contact instructor or department for details.	Seats (Total: 5)

1301	Brian MacDevitt Contact instructor or department for details.	Seats (Total: 5)
1501	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)
1601	Daniel Conway Contact instructor or department for details. Contact instructor or department for details.	Seats (Total: 5)
1701	Helen Huang Contact instructor or department for details. Contact instructor or department for details.	Seats (Total: 5)
1801	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)
2001	Faedra Carpenter Contact instructor or department for details. Contact instructor or department for details.	Seats (Total: 5)
2003	Cary Gillett Contact instructor or department for details. Contact instructor or department for details.	Seats (Total: 5)
2005	Laurie Frederik Contact instructor or department for details.	Seats (Total: 5)
2007	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)

THET293 **Black Theatre and Performance I**

Credits: 3 Grading Method: Regular CORE: HA, D General Education: DSHU, DSSP, DVUP

Restriction: Sophomore standing or higher.

Thematic and historical survey of African-American drama from the late nineteenth century to the 1960s. Emphasis on sociopolitical context, thematic thrust, issues, styles, the aesthetic reflected in the work, impact on African-American and general theatre audiences.

0101	Leticia Ridley MW 2:00pm - 3:45pm	Seats (Total: 25) PAC 1809

FC01	Jacqueline Hammond	Seats (Total: 20)	
	TuTh 6:00pm - 7:15pm	KEY 0119	
	Restricted to students in Freshman Connection.		

THET310 **Voice for the Actor I**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: THET116, THET222, THET223, and TDPS201; and must Interview; and permission of ARHU-School of Theatre, Dance & Performance Studies department. Restriction: Sophomore standing or higher.

Freeing the natural voice. In-depth experience of connection of actor's voice to thought, impulse and emotion. Tools for releasing tension, increasing resonance and range, and refining articulation will be explored.

Students must pay a $25.00 lab fee.

5501	Lisa Nathans	Seats (Total: 20)	
	MW 10:00am - 11:50am	PAC 2740	Lab

THET325 **Actor's Process I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in THET310; or permission of Instructor. And must audition; and permission of ARHU-School of Theatre, Dance & Performance Studies department.

Focus on use of self in creating character. Tools employed include decision-making and use of imagery, personalization, objectives, adjectives, and verbs.

5501	Mitchell Hebert	Seats (Total: 12)	
	MW 10:00am - 11:50am	PAC 3730	Lab

THET328D **Special Topics in Intermediate Theatre and Performance; Theatre for Young Audiences**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics covered include: Intercultural Theatre, Performance Art, Puppetry, Solo Performance, or Theatrical Design.

Pre-Req Requirements: THET222, THET223, THET116, and TDPS201 or permission of instructor.

0101	Jared Mezzocchi MW 12:00pm - 1:50pm	Seats (Total: 10) PAC 3730

THET328M **Special Topics in Intermediate Theatre and Performance; Introduction to Musical Theatre**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Topics covered include: Intercultural Theatre, Performance Art, Puppetry, Solo Performance, or Theatrical Design.

Students must pay a $25 lab fee.

5501	Lisa Nathans Tu 9:00am - 11:50am	Seats (Total: 12) PAC 2740

THET328V **Special Topics in Intermediate Theatre and Performance; Coding for Live Performance**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Topics covered include: Intercultural Theatre, Performance Art, Puppetry, Solo Performance, or Theatrical Design.

Students must pay a $25 lab fee. Computer programming is quickly becoming an essential skill for designers in all fields. This course will provide an introduction to object-oriented programming through the use of Processing, a Java-based programming language for the electronic arts, new media art, and visual design. This course will explore the use of computer programming to generate imagery and interactivity utilizing various algorithms, user & sensor inputs, and data within the scope of media design for live performance.

5501	Dylan Uremovich MW 1:00pm - 2:50pm	Seats (Total: 8) PAC 2727

THET330 **Play Directing I**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: THET222, THET223, and THET116. And THET114; or TDPS201. And permission of ARHU-School of Theatre, Dance & Performance Studies department. Restriction: Junior standing or higher.

A lecture-laboratory course dealing with the techniques of coordinating designing and guiding the production of a script through to performance. Study and practice in stage composition, movement, pacing, script and character analysis, and rehearsal routines. Emphasis on methods of communicating a script to an audience.

5501	Scot Reese	Seats (Total: 12)	
	TuTh 2:00pm - 3:50pm	PAC 2740	Lab

THET340 **Playwriting I**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: THET222, THET223, THET116, and TDPS201. Restriction: Permission of ARHU-School of Theatre, Dance & Performance Studies department. Credit only granted for: THET340 or THET399P. Formerly: THET399P.

Will introduce students to the art of playwriting through exploratory writing exercises, the reading of successful plays, the development of new short scripts, how to make theatrical choices, and how to use the six elements of storytelling.

Students must pay a $25.00 lab fee.

5501	Jennifer Newsham	Seats (Total: 12)
	MW 10:00am - 11:50am	PAC 1815

THET363 **The Business of the Business**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: THET116, THET222, THET223, and TDPS201; and permission of ARHU-School of Theatre, Dance & Performance Studies department. Credit only granted for: THET399B or THET499E or THET363. Formerly: THET399B, THET499E.

An in depth study of the business of working in the theatre. Explores early career opportunities and entry-level positions in the entertainment industry. Analyzes publicity, management, union, casting, and agency practices; how they apply to you and your career in the non-profit and commercial theatre.

0101	Mitchell Hebert	Seats (Total: 18)
	F 9:00am - 11:50am	PAC 1815

THET369L **Special Topics in Study Abroad III; 20th Century and Contemporary Latin American Theatre**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

THET371 **Scenic Design I**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: THET222, THET223, and THET116; and (THET114; or TDPS201). Or permission of ARHU-School of Theatre, Dance & Performance Studies department.

A study of design theory and style. Methods and techniques of coordination of all elements of scenic design for theatre.

Students must pay a $25.00 lab fee.

5501	Mikhail Kachman W 2:00pm - 4:50pm	Seats (Total: 8) PAC 2733

THET383 **Costume Design I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: TDPS201 or THET114; and (THET116, THET222, and THET223). Or permission of ARHU-School of Theatre, Dance & Performance Studies department.

Basic principles of theatre costume design and introduction to rendering skills. Emphasis on development of design conception, unity, character statement, basic clothing design and period style adaptation.

Students must pay a $25 lab fee.

5501	Benjamin Weigel TuTh 11:00am - 12:50pm	Seats (Total: 8) PAC 2733

THET385 **Media Design**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: THET222, THET223, THET116, and TDPS201; and permission of ARHU-School of Theatre, Dance & Performance Studies department. Credit only granted for: THET399D or THET385. Formerly: THET399D.

Focuses on learning the grammar and conceptual thinking behind multimedia design for live performance. Students will learn how our new multimedia tools can enhance the sense of liveness as well as explore the different ways in which technology can be implemented into preproduction thinking, rehearsal experimenting, and ultimately, effective use in performance.

Students must pay a $25 lab fee

5501	Paul Deziel TuTh 10:30am - 12:15pm	Seats (Total: 12) PAC 2727

THET386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Restriction: Junior standing or higher; and permission of ARHU-School of Theatre, Dance & Performance Studies department.

0101	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)
0201	Franklin Hildy Contact instructor or department for details.	Seats (Total: 5)
0301	Leigh Smiley Contact instructor or department for details.	Seats (Total: 5)
0401	Scot Reese Contact instructor or department for details.	Seats (Total: 5)
0501	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)
0601	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)
0801	Leslie Felbain Contact instructor or department for details.	Seats (Total: 5)
0901	Mitchell Hebert Contact instructor or department for details.	Seats (Total: 5)
1101	Mikhail Kachman Contact instructor or department for details.	Seats (Total: 5)

1301	Brian MacDevitt Contact instructor or department for details.	Seats (Total: 5)
1501	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)
1601	Daniel Conway Contact instructor or department for details.	Seats (Total: 5)
1701	Helen Huang Contact instructor or department for details.	Seats (Total: 5)
1801	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)
2001	Faedra Carpenter Contact instructor or department for details.	Seats (Total: 5)
2003	Cary Gillett Contact instructor or department for details.	Seats (Total: 5)
2005	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)
2007	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)
2009	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)

THET390 **History of Theatre I**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit , D

Prerequisite: Permission of ARHU-School of Theatre, Dance & Performance Studies department.

The history of Western theatre from its origins in classical antiquity through the mid-seventeenth century with emphasis on plays and playwrights, architecture and decor, acting and costuming, and significant personalities. Includes explorations of interrelationships between Western theatre and the theatre of other cultures.

0101	Allison Hedges TuTh 11:00am - 12:15pm	Seats (Total: 25) PAC 1809

THET399 **Independent Study**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

An independent study in which each student completes an assigned major theatre project under close faculty supervision. Projects may culminate in term papers, scenic; lighting, or costume designs; or a stage production.

0201	Franklin Hildy Contact instructor or department for details.	Seats (Total: 5)
0301	Leigh Smiley Contact instructor or department for details.	Seats (Total: 5)
0401	Scot Reese Contact instructor or department for details.	Seats (Total: 5)
0501	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)
0601	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)
0701	Jennifer Newsham Contact instructor or department for details.	Seats (Total: 5)
0801	Leslie Felbain Contact instructor or department for details.	Seats (Total: 5)
0901	Mitchell Hebert Contact instructor or department for details.	Seats (Total: 5)
1101	Mikhail Kachman Contact instructor or department for details.	Seats (Total: 5)
1301	Brian MacDevitt Contact instructor or department for details.	Seats (Total: 5)
1401	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)
1501	Lisa Nathans Contact instructor or department for details.	Seats (Total: 5)

1601	Daniel Conway Contact instructor or department for details.	Seats (Total: 5)
1701	Helen Huang Contact instructor or department for details.	Seats (Total: 5)
1801	Mark Rapach Contact instructor or department for details.	Seats (Total: 5)
2001	Faedra Carpenter Contact instructor or department for details.	Seats (Total: 5)
2003	Cary Gillett Contact instructor or department for details.	Seats (Total: 5)
2005	Laurie Frederik Contact instructor or department for details.	Seats (Total: 5)
2007	Jared Mezzocchi Contact instructor or department for details.	Seats (Total: 5)
2009	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)

THET399H **Independent Study; London Stage**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An independent study in which each student completes an assigned major theatre project under close faculty supervision. Projects may culminate in term papers, scenic; lighting, or costume designs; or a stage production.

Contact department for information to register for this course.

THET399W **Independent Study; The London Stage**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

An independent study in which each student completes an assigned major theatre project under close faculty supervision. Projects may culminate in term papers, scenic; lighting, or costume designs; or a stage production.

Contact department for information to register for this course.

THET399X **Independent Study; The London Stage**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

An independent study in which each student completes an assigned major theatre project under close faculty supervision. Projects may culminate in term papers, scenic; lighting, or costume designs; or a stage production.

Contact department for information to register for this course.

THET408B **Seminar: Theory and Performance Studies; Black Is...Black Ain't**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Studies in theatre theory and performance studies from classical antiquity to the present.

Also offered as AMST428B and WMST428K. Credit only granted for AMST428B, THET408B, or WMST428K. In this course we will examine an array of performance texts in an effort to understand how Blackness represented in U.S. popular culture. The course will aim to deconstruct stereotypes of Blackness in the U.S and African diaspora while focusing specifically on it relations to and intersections with gender and sexuality. We will investigate how Black people are portrayed and represented in history, literature, and popular culture and challenge the notion of essential or authentic Blackness. Throughout the course, we will engage various theories of performance and identity and explore race, gender and sexuality as constructed categories.

0101	Tabitha Chester	Seats (Total: 12)
	F 1:00pm - 3:30pm	PAC 1815

THET408F **Seminar: Theory and Performance Studies; Introduction to Performance Studies**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Studies in theatre theory and performance studies from classical antiquity to the present.

Also offered as AMST428R. Credit only granted for AMST428R or THET408F. Using an expansive exploration of performance art as a guide, this seminar will introduce students to the theoretical and methodological paradigms that define performance studies as a field. Particular attention will be given to the blurring of art and life, the politics of identity and representation, and the strategies of creative activism.

0101	James Harding	Seats (Total: 15)
	TuTh 2:00pm - 3:15pm	PAC 1809

THET420 **Language and the Actor**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: THET325 or THET324; and must audition; and permission of ARHU-School of Theatre, Dance & Performance Studies department.

Explores the actor's relationship to language, particularly heightened poetic language, in order to: develop the ability to embody language and vocally and physically project the images; apply an intellectual understanding of the inherent structural, poetic, and rhetorical techniques of heightened language in combination with action theory; and access the inner states of character while expressing them through text.

5501	Lisa Nathans	Seats (Total: 14)	
	MW 1:00pm - 2:50pm	PAC 2740	Lab

THET428L **Special Topics in Advanced Theatre and Performance; Advanced Techniques Lighting Design: Programming**

(Perm req)

Credits: 3 Grading Method: Regular

This course is offered as part of the School of Theatre, Dance, and Performance Studies' Artist in Residence program. Topics covered may include: Intercultural Theatre; Performance Art; Puppetry; Solo Performance; or Theatrical Design.

Required pre-requisite THET377. Students must pay a $25 lab fee.

5501	Lauren Gallup	Seats (Total: 8)	
	TuTh 3:00pm - 4:50pm	PAC 3731	

THET428N **Special Topics in Advanced Theatre and Performance; Programming for Stage Managers**

(Perm req)

Credits: 1 Grading Method: Regular

This course is offered as part of the School of Theatre, Dance, and Performance Studies' Artist in Residence program. Topics covered may include: Intercultural Theatre; Performance Art; Puppetry; Solo Performance; or Theatrical Design.

For permission please email Peter Leibold.

0101	Peter Leibold	Seats (Total: 5)
	Contact instructor or department for details.	

THET428O **Special Topics in Advanced Theatre and Performance; Photoshop**

Credits: 3 Grading Method: Regular

This course is offered as part of the School of Theatre, Dance, and Performance Studies' Artist in Residence program. Topics covered may include: Intercultural Theatre; Performance Art; Puppetry; Solo Performance; or Theatrical Design.

5501	Andrew Cohen	Seats (Total: 3)	
	MW 9:00am - 10:50am	PAC 2727	Lab
	Also offered as THET669P.		

THET429 **Actor's Studio**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail

Participation in dramatic roles executed under faculty supervision in the department's productions. Eligible students must make commitments and plan performances with course instructor during pre-registration.

Contact department for information to register for this course.

THET473 **Rendering for the Theatre II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: THET373; or permission of instructor.

Continued study in rendering techniques and graphic skills for theatrical design presentation. Emphasis on style, technique and use of different artistic media.

Students must pay a $25 lab fee.

0101	Helen Huang	Seats (Total: 8)	
	TuTh 1:30pm - 2:50pm	PAC 2733	

THET477 **Design Studio in Lighting**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: THET377; and permission of ARHU-School of Theatre, Dance & Performance Studies department. Also offered as: THET659. Credit only granted for: THET477 or THET659.

Designed for students who have successfully completed THET377 and wish to further develop their lighting design skills. Emphasis is on theoretical design of productions and realized light lab projects. Particular design projects will vary.

Students must pay a $25.00 lab fee.

5501	Andrew Cissna	Seats (Total: 3)	
	MW 1:00pm - 2:50pm	PAC 2755	Lab

THET481 **Theatre Graphics II: Computer Assisted Design**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: THET114 or TDPS201; and THET116; and permission of ARHU-Theatre department. Restriction: Sophomore standing or higher.

Study and practical application of computer generated graphical design for use in theatrical production.

Students must pay a $25.00 lab fee.

5501	Andrew Cissna MW 11:00am - 12:50pm	Seats (Total: 8) PAC 2727	Lab
5502	Emily Lotz TuTh 3:00pm - 4:50pm *This section is for Scenic Design students only*	Seats (Total: 8) PAC 2727	

THET489G **Special Topics in Theatre History from 1800 to Present; Globalization and Theatre**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Topics in the history of world theatre and performance from 1800 to present.

0101	Po-Hsien Chu TuTh 11:00am - 12:15pm	Seats (Total: 15) PAC 1815

THET499 **Independent Study**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

An independent study course in which each student completes an assigned major theatre project under close faculty supervision. Projects may culminate with term papers, scenic or costume designs, or a stage production.

0201	Franklin Hildy Contact instructor or department for details.	Seats (Total: 5)
0301	Leigh Smiley Contact instructor or department for details.	Seats (Total: 5)
0401	Scot Reese Contact instructor or department for details.	Seats (Total: 5)

0501	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)
0601	James Harding Contact instructor or department for details.	Seats (Total: 5)
0701	Jennifer Newsham Contact instructor or department for details.	Seats (Total: 5)
0801	Leslie Felbain Contact instructor or department for details.	Seats (Total: 5)
0901	Mitchell Hebert Contact instructor or department for details.	Seats (Total: 5)
1001	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)
1101	Mikhail Kachman Contact instructor or department for details.	Seats (Total: 5)
1301	Brian MacDevitt Contact instructor or department for details.	Seats (Total: 5)
1401	Andrew Cissna Contact instructor or department for details.	Seats (Total: 5)
1501	Lisa Nathans Contact instructor or department for details.	Seats (Total: 5)
1601	Daniel Conway Contact instructor or department for details.	Seats (Total: 5)
1701	Helen Huang Contact instructor or department for details.	Seats (Total: 5)
1801	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)
2001	Faedra Carpenter Contact instructor or department for details.	Seats (Total: 5)
2003	Cary Gillett Contact instructor or department for details.	Seats (Total: 5)

2005	Laurie Frederik Contact instructor or department for details.	Seats (Total: 5)
2007	Jared Mezzocchi Contact instructor or department for details.	Seats (Total: 5)
2009	Raye Leith Contact instructor or department for details.	Seats (Total: 5)

THET499B **Independent Study; Figure Drawing**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An independent study course in which each student completes an assigned major theatre project under close faculty supervision. Projects may culminate with term papers, scenic or costume designs, or a stage production.

Students must pay a $25 lab fee

5501	Raye Leith F 9:00am - 11:50am	Seats (Total: 10) PAC 3736

THET600 **Introduction to Graduate Research Methods**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Also offered as: THET700. Credit only granted for: THET600 or THET700.

A research and bibliography course with special emphasis on research in theatre. Required of all M.A. and M.F.A. students.

0101	Franklin Hildy W 4:00pm - 6:30pm	Seats (Total: 12) PAC 1815

THET606 **Teaching Theatre**

(Perm req)

Credits: 1 Grading Method: Regular, Audit

Strategies and materials for teaching a typical introductory course in theatre, with emphasis on specific problems of classroom instruction (e.g., creating a supportive climate, promoting active learning by students, constructing appropriate tests, adapting methods to content, and resolving discipline problems).

0101	Faedra Carpenter Tu 10:00am - 10:50am *This section is for MA/PhD students*	Seats (Total: 10) PAC 1815
0102	Leigh Smiley Tu 9:00am - 9:50am *This section is for MFA in Design Students*	Seats (Total: 15) PAC 1815

THET608A **Seminar: Theory and Performance Studies; History, Aesthetics, Culture**

Credits: 3 Grading Method: Regular, Audit

A repeatable seminar on special topics in theory of the Theatre and Performance Studies.

Also offered as DANC689A. Credit only granted for DANC689A or THET608A. This seminar will investigate dance and performance as both a subject area and a mode of inquiry. We will investigate examples from contemporary choreography and performance, including a variety of concert and theatrical dance styles, and other movement practices. In conjunction with readings and discussions from dance history and theory, performance and cultural studies, we will consider different areas of the field of dance studies. We will address questions of subjectivity, location, audience, ommodification, conventionality, staging and the representation of ody politics. Students are expected to engage in critical viewing of dances and performances, conduct in-depth analyses of readings, participate in class discussions, give a presentation, and produce a final research paper.

0101	Maura Keefe W 1:30pm - 4:00pm	Seats (Total: 10) PAC 1815

THET639 **Advanced Design Studio in Scenery**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

A repeatable course that allows students to progress in their design training through a series of carefully and individually structured assignments and projects.

Students must pay a $25.00 lab fee.

0101	Instructor: TBA TuTh 1:30pm - 2:50pm	Seats (Total: 8) PAC 2755

THET649 **Advanced Design Studio in Costume**

Credits: 3 Grading Method: Regular, Audit

A series of carefully and individually structured assignments and projects that allows students to progress in their design training.

Students must pay a $25 lab fee

5501	Helen Huang TuTh 10:00am - 11:50am	Seats (Total: 6) PAC 2755	

THET659 **Advanced Design Studio in Lighting**

Credits: 3 Grading Method: Regular, Audit

A repeatable course that allows students to progress in their design training through a series of carefully and individually structured assignments and projects.

Students must pay a $25.00 lab fee.

0101	Andrew Cissna F 3:00pm - 6:00pm	Seats (Total: 6) PAC 2755	
0102	Andrew Cissna MW 1:00pm - 2:50pm	Seats (Total: 6) PAC 2755	Lab

THET669 **Independent Study**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Contact department for information to register for this course.

THET669D **Independent Study; Advanced Media Design**

Credits: 1-3 Grading Method: Regular, Audit

5501	Jared Mezzocchi F 9:00am - 12:00pm	Seats (Total: 8) PAC 2727	Lab

THET669F **Independent Study; Figure Drawing**

Credits: 3 Grading Method: Regular, Audit

5501	Raye Leith F 9:00am - 11:50am	Seats (Total: 10) PAC 3736

THET669P **Independent Study; Photoshop**

Credits: 3 Grading Method: Regular, Audit

5501	Andrew Cohen	Seats (Total: 8)	
	MW 9:00am - 10:50am	PAC 2727	Lab

THET669W **Independent Study; Devised Work Collaboration**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

The class will explore new techniques of telling mythological themes, specifically examining the use of high style-low technical approaches to theatrical storytelling. Students will discuss and explore different avenues of storytelling through design and performance, including scenery, costumes, lighting, projections, puppetry, movement, and performance. Focus will be on the cross-discipline exploration and discussion of design techniques as vehicles for storytelling while helping students examine and push their own style and tools of design. The final project will be a performance piece by the designers in the light lab loosely based off an existing text. Students must pay a $25 course fee.

5501	Brian MacDevitt	Seats (Total: 8)
	MW 9:00am - 11:50am	PAC 2733

THET679 **Advanced Design Studio in Multimedia and Projection Design**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

A repeatable course that allows students to progress in their design training through a series of carefully and individually structured assignments and projects.

Students must pay a $25 lab fee.

5501	Jared Mezzocchi	Seats (Total: 5)
	Contact instructor or department for details.	

THET698E **Seminar: Theatre History; Contemporary African American Drama**

Credits: 3 Grading Method: Regular, Audit

Studies in theatre history from classical antiquity to the present.

0101	Faedra Carpenter	Seats (Total: 10)
	MW 9:00am - 10:15am	PAC 1924

THET700 **Introduction to Doctoral Studies in Theatre**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Prerequisite: Must be admitted to the Ph.D. program in Theatre. Also offered as: THET600. Credit only granted for: THET600 or THET700.

Basic skills in theatre research.

0101	Franklin Hildy W 4:00pm - 6:30pm	Seats (Total: 12) PAC 1815

THET713 **Performance Studies**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: THET700.

Introduces doctoral students to theoretical and methodological issues i performance studies. We will focus on 3 primary areas of research, analyzing representational strategies of adaptations, ethnography, and cultural analysis of theatrical performance.

0101	James Harding Th 4:00pm - 6:30pm	Seats (Total: 10) PAC 1815

THET788 **Master's Tutorial**

(Perm req)

Credits: 1-6

Grading Method: Regular, Audit

Collaboration with a faculty member on joint creative and artistic projects.

0201	Franklin Hildy Contact instructor or department for details.	Seats (Total: 5)
0301	Leigh Smiley Contact instructor or department for details.	Seats (Total: 5)
0401	Scot Reese Contact instructor or department for details.	Seats (Total: 5)
0501	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)

0601	James Harding Contact instructor or department for details.	Seats (Total: 5)
0701	Jennifer Newsham Contact instructor or department for details.	Seats (Total: 5)
0801	Leslie Felbain Contact instructor or department for details.	Seats (Total: 5)
0901	Mitchell Hebert Contact instructor or department for details.	Seats (Total: 5)
1101	Mikhail Kachman Contact instructor or department for details.	Seats (Total: 5)
1301	Brian MacDevitt Contact instructor or department for details.	Seats (Total: 5)
1501	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)
1601	Daniel Conway Contact instructor or department for details.	Seats (Total: 5)
1701	Helen Huang Contact instructor or department for details.	Seats (Total: 5)
1801	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)
2001	Faedra Carpenter Contact instructor or department for details.	Seats (Total: 5)
2005	Laurie Frederik Contact instructor or department for details.	Seats (Total: 5)
2007	Jared Mezzocchi Contact instructor or department for details.	Seats (Total: 10)

THET789 **Master's Practicum**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Participation in creative and artistic activities with professional level theatrical organizations.

0201	Franklin Hildy Contact instructor or department for details.	Seats (Total: 5)
0301	Leigh Smiley Contact instructor or department for details.	Seats (Total: 5)
0401	Scot Reese Contact instructor or department for details.	Seats (Total: 5)
0501	Esther Lee Contact instructor or department for details.	Seats (Total: 5)
0601	James Harding Contact instructor or department for details.	Seats (Total: 5)
0701	Jennifer Newsham Contact instructor or department for details.	Seats (Total: 5)
0801	Leslie Felbain Contact instructor or department for details.	Seats (Total: 5)
0901	Mitchell Hebert Contact instructor or department for details.	Seats (Total: 5)
1101	Mikhail Kachman Contact instructor or department for details.	Seats (Total: 5)
1301	Brian MacDevitt Contact instructor or department for details.	Seats (Total: 5)
1601	Daniel Conway Contact instructor or department for details.	Seats (Total: 5)
1701	Helen Huang Contact instructor or department for details.	Seats (Total: 5)
1801	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)
2001	Faedra Carpenter Contact instructor or department for details.	Seats (Total: 5)
2005	Laurie Frederik Contact instructor or department for details.	Seats (Total: 5)

2007	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)

THET799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

0201	Franklin Hildy Contact instructor or department for details.	Seats (Total: 5)
0301	Leigh Smiley Contact instructor or department for details.	Seats (Total: 5)
0401	Scot Reese Contact instructor or department for details.	Seats (Total: 5)
0501	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)
0601	James Harding Contact instructor or department for details.	Seats (Total: 5)
0701	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)
0801	Leslie Felbain Contact instructor or department for details.	Seats (Total: 5)
0901	Mitchell Hebert Contact instructor or department for details.	Seats (Total: 5)
1101	Mikhail Kachman Contact instructor or department for details.	Seats (Total: 5)
1301	Brian MacDevitt Contact instructor or department for details.	Seats (Total: 5)
1501	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)
1601	Daniel Conway Contact instructor or department for details.	Seats (Total: 5)

1701	Helen Huang Contact instructor or department for details.	Seats (Total: 5)
1801	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)
2001	Faedra Carpenter Contact instructor or department for details.	Seats (Total: 5)
2005	Laurie Frederik Contact instructor or department for details.	Seats (Total: 5)
2007	Jared Mezzocchi Contact instructor or department for details.	Seats (Total: 5)

THET888 **Doctoral Practicum in Theatre**

(Perm req)

Credits: 1-6 Grading Method: Regular

Critical analysis of a phase of a professional field of theatre. Analysis of professional activity through personal observation. Evaluation of the purpose, process, effectiveness, and efficiency of professional activity. Recommendations for training and further research.

0201	Franklin Hildy Contact instructor or department for details.	Seats (Total: 10)
0501	Instructor: TBA Contact instructor or department for details.	Seats (Total: 10)
0601	James Harding Contact instructor or department for details.	Seats (Total: 5)
2001	Faedra Carpenter Contact instructor or department for details.	Seats (Total: 10)
2005	Laurie Frederik Contact instructor or department for details.	Seats (Total: 10)

THET889 **Doctoral Tutorial in Theatre**

(Perm req)

Credits: 1-6 Grading Method: Regular

Individual research in theatre.

0201	Franklin Hildy Contact instructor or department for details.	Seats (Total: 10)
0501	Instructor: TBA Contact instructor or department for details.	Seats (Total: 10)
0601	James Harding Contact instructor or department for details.	Seats (Total: 5)
2001	Faedra Carpenter Contact instructor or department for details.	Seats (Total: 10)
2005	Laurie Frederik Contact instructor or department for details.	Seats (Total: 10)

THET898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

0201	Franklin Hildy Contact instructor or department for details.	Seats (Total: 10)
0501	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)
0601	James Harding Contact instructor or department for details.	Seats (Total: 10)
2001	Faedra Carpenter Contact instructor or department for details.	Seats (Total: 10)
2005	Laurie Frederik Contact instructor or department for details.	Seats (Total: 10)

THET899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular, Audit

0201	Franklin Hildy Contact instructor or department for details.	Seats (Total: 10)
0501	Instructor: TBA Contact instructor or department for details.	Seats (Total: 10)

0601	James Harding Contact instructor or department for details.	Seats (Total: 10)
2001	Faedra Carpenter Contact instructor or department for details.	Seats (Total: 10)
2005	Laurie Frederik Contact instructor or department for details.	Seats (Total: 10)

TLPL Teaching and Learning, Policy and Leadership — Fall 2018

TLPL101 **Inquiry Teaching of STEM in Elementary School**

Credits: 1 Grading Method: Regular

Additional information: Attendance at each class session will be vital to student success in the course. To complete the observations and lessons, students must allow a three-hour block of time during the local elementary school operational hours from 7:45 am to 3:15 pm. A background check is required.

Exploration of teaching science or mathematics as a career. Discussions include standards-based lesson design and various teaching strategies. Fieldwork consists of observing, planning and teaching inquiry-based lessons to students in grades three to six in local elementary schools.

0101	Julie Brenner M 3:00pm - 4:20pm	Seats (Total: 22) PHY 1108
0201	Steven Karig Th 2:00pm - 3:20pm	Seats (Total: 22) PHY 1108
0301	Kayla White M 3:00pm - 4:20pm	Seats (Total: 22) PHY 1120

TLPL102 **Inquiry Teaching of STEM in Middle School**

Credits: 2 Grading Method: Regular General Education: DSSP

Prerequisite: Must have completed TLPL101. Additional information: Attendance at each class session will be vital to student success in the course. To complete the observations and lessons, students must allow a three hour block of time during the local middle school operational hours from 7:45 am to 3:15 pm. A background check is required.

Second course in the Terrapin Teachers teacher preparation sequence. Students gain field experience and continue exploring teaching as a career by conducting teacher observations, and planning and implementing lessons in local, high-need middle school classrooms. Students work closely with UM master teachers to build upon the inquiry-based teaching practices developed in TLPL 101. Students work with mathematics and science curricula while attending to state and district standards, in order to develop and enact lessons that are responsive to students' reasoning in math and science.

0101	Sarah Henson-Darko Th 5:00pm - 6:50pm	Seats (Total: 22) PHY 1120

TLPL200 **Exploring Teaching as a Career**

Credits: 3 Grading Method: Regular General Education: DSSP

Credit only granted for: EDCI210 or TLPL200. Formerly: EDCI210.

Weekly participation as a volunteer tutor in a local school or community program with children or adolescents. Regular campus meetings assist with developing teaching skills and insight.

All schools require that fingerprinting and background check be completed, at an additional cost of approximately $62, prior to the start of the experience.

0101	Olivia Murphy Tu 2:00pm - 4:00pm Contact instructor or department for details.	Seats (Total: 15) EDU 3233

TLPL250 **Historical and Philosophical Perspectives on Education**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHU

Credit only granted for: EDPS210 or TLPL250. Formerly: EDPS210.

An examination of illustrative historical and philosophical examples of the interplay of ideas and events in the shaping of educational aims and practices from ancient cultures to modern technological societies.

0101	Dale Placek TuTh 12:30pm - 1:45pm	Seats (Total: 30) ASY 3215
0201	Joel Miller TuTh 9:30am - 10:45am	Seats (Total: 30) EDU 3315
0301	Campbell Scribner TuTh 11:00am - 12:15pm	Seats (Total: 30) EDU 3315

TLPL251 **Introduction to Teaching**

Credits: 3 Grading Method: Regular

Credit only granted for: EDCI280 or TLPL251. Formerly: EDCI280.

An exploration of teaching in public schools, grades 1-12: student diversity, societal changes, and the expectations of teachers and public schools. Three hour per week field component.

Two hours per week on campus plus three hours per week in a local school off campus. Most schools are within a 20 minute commute with more travel time needed if public transportation is required. Allow for travel time between on-campus coursework and the offcampus school experience. All schools require that fingerprinting and background checks be completed, at an additional cost of approximately $62, prior to the start of the experience.

0101	Lisa Bote Tu 12:30pm - 2:20pm Tu 8:30am - 11:30am	Seats (Total: 8) EDU 3315 Location: TBA	Lab
0102	Lisa Bote Tu 12:30pm - 2:20pm W 12:30pm - 3:30pm	Seats (Total: 8) EDU 3315 Location: TBA	Lab
0103	Lisa Bote Tu 12:30pm - 2:20pm Th 8:30am - 11:30am	Seats (Total: 8) EDU 3315 Location: TBA	Lab
0104	Lisa Bote Tu 12:30pm - 2:20pm Th 12:30pm - 3:30pm	Seats (Total: 8) EDU 3315 Location: TBA	Lab

TLPL288C **Special Problems in Education; The Power of the Tongue**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHS, DVCC, SCIS

Special and intensive treatment of current topics and issues in teaching, learning, policy and leadership. Available only to freshmen and sophomore students who have definite plans for individual study of approved problems relative to their preparation for teaching.

Formerly: EDCI288C. Credit only granted for EDCI288C or TLPL288C.

0101	Ebony Shockley MW 11:00am - 11:50am Class time/details on ELMs	Seats (Total: 40) ESJ 2309 ONLINE

0102	Ebony Shockley	Seats (Total: 15)
	MW 11:00am - 11:50am Class time/details on ELMs	ESJ 2309 ONLINE
	This section is restricted to students in Carillon Communities.	

TLPL288D **Special Problems in Education; Developmental Heuristics**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special and intensive treatment of current topics and issues in teaching, learning, policy and leadership. Available only to freshmen and sophomore students who have definite plans for individual study of approved problems relative to their preparation for teaching.

0101	Tilahun Beyene	Seats (Total: 115)
	Contact instructor or department for details.	

TLPL288W **Special Problems in Education; Forbidden Books: Censorship of Children's & Young Adult Literature**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHS, SCIS

Special and intensive treatment of current topics and issues in teaching, learning, policy and leadership. Available only to freshmen and sophomore students who have definite plans for individual study of approved problems relative to their preparation for teaching.

0101	Wayne Slater	Seats (Total: 60)
	TuTh 12:30pm - 1:45pm	TWS 0320

TLPL298 **Special Problems in Education**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

Exploration of current problems in teaching, learning, policy and leadership. Available only to students who have definite plans for study of approved problems.

Contact department for information to register for this course.

TLPL305B **Curriculum and Instruction Cluster**

(Perm req)

Credits: 0 Grading Method:

0101	Instructor: TBA	Seats (Total: 30)
	Contact instructor or department for details.	

0201	Instructor: TBA Contact instructor or department for details.	Seats (Total: 30)
0301	Instructor: TBA Contact instructor or department for details.	Seats (Total: 30)

TLPL305M **Curriculum and Instruction Cluster**

(Perm req)

Credits: 0 Grading Method:

0101	Instructor: TBA Contact instructor or department for details.	Seats (Total: 20)

TLPL312 **Curriculum and Instruction in Elementary Education: Mathematics**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: TLPL361. Corequisite: EDCI362, EDCI342, TLPL321, and TLPL362. Restriction: Must be in Elementary Education program; and minimum cumulative GPA of 2.75. Or permission of EDUC-Teaching and Learning, Policy and Leadership department. Credit only granted for: EDCI352 or TLPL312. Formerly: EDCI352.

Materials and procedures to help children sense arithmetical meanings and relationships. Development of an understanding of the number system and arithmetical processes. Includes laboratory/field experiences.

0101	Angela Stoltz M 12:00pm - 2:45pm Contact instructor or department for details.	Seats (Total: 0) EDU 2121
0201	Kelly Ivy Th 8:30am - 11:15am Contact instructor or department for details.	Seats (Total: 0) EDU 2121
0301	Imani Goffney Tu 12:00pm - 2:45pm Contact instructor or department for details.	Seats (Total: 0) EDU 2121

TLPL321 **Curriculum and Instruction in Elementary Education: Science**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: TLPL361. Corequisite: TLPL312, EDCI362, EDCI342, and TLPL362. Restriction: Must be in Elementary Education program; and minimum cumulative GPA of 2.75. Or permission of EDUC-Teaching and Learning, Policy and Leadership department. Credit only granted for: EDCI372 or TLPL321. Formerly: EDCI372.

Objectives, methods, materials and activities for teaching science in the elementary school; emphasis on teaching strategies which help children learn the processes and concepts of science. Includes laboratory/field experiences.

0101	James McGinnis M 8:30am - 11:15am Contact instructor or department for details.	Seats (Total: 0) EDU 2212
0201	Kelly Mills Th 12:00pm - 2:45pm Contact instructor or department for details.	Seats (Total: 0) EDU 2212
0301	James McGinnis Tu 8:30am - 11:15am Contact instructor or department for details.	Seats (Total: 0) EDU 2212

TLPL340 **Introduction to Children's Literature and Critical Literacy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in Elementary Education program; or must be a Pre-Education Major. Credit only granted for: EDCI443 or TLPL340. Formerly: EDCI443.

Analysis of literary materials for children and youth. Timeless and ageless books, and outstanding examples of contemporary publishing. Evaluation of the contributions of individual authors, illustrators and children's book awards.

0101	Margaret Peterson MW 1:00pm - 2:15pm	Seats (Total: 25) EDU 2102
0201	Margaret Peterson MW 2:30pm - 3:45pm	Seats (Total: 23) EDU 2102

TLPL360 **Foundations of Education**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHS

Credit only granted for: EDPS301 or TLPL360. Formerly: EDPS301.

Social context of education and conflicts over philosophies, values, an goals that are reflected in educational institutions in our pluralistic society. Helps teachers become reflective, critical thinkers about the social and philosophical issues they face and the choices they make.

0101	Julie Miller TuTh 9:30am - 10:45am	Seats (Total: 30) EDU 3233
0201	Jason Saltmarsh MW 11:00am - 12:15pm	Seats (Total: 30) SQH 1103
0301	Julie Miller TuTh 2:00pm - 3:15pm	Seats (Total: 30) HBK 1112
0401	Lisa Eaker W 4:15pm - 7:00pm	Seats (Total: 30) JMZ 1122

TLPL403 **Teaching and Learning High School Mathematics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have 2 semesters of calculus; or permission of EDUC-Teaching and Learning, Policy and Leadership department. Corequisite: EDCI355. Restriction: Must be in Secondary Educ: Mathematics program; and minimum cumulative GPA of 2.75. Or permission of EDUC-Teaching and Learning, Policy and Leadership department. Credit only granted for: EDCI455 or TLPL403. Formerly: EDCI455.

Methods of teaching and assessing the high school mathematics curriculum; aligning tasks and activities to curriculum standards; lesson planning; and selection and use of technology. The course also focuses on managing large group dynamics in the high school mathematics classroom.

0101	Dana Grosser-Clarkson M 5:00pm - 8:00pm	Seats (Total: 20) PHY 1108

TLPL411 **Student Teaching in Secondary Schools: Mathematics**

(Perm req)

Credits: 12 Grading Method: Sat-Fail

Corequisite: EDCI450. Restriction: Minimum cumulative GPA of 2.75; and permission of EDUC-Teaching and Learning, Policy and Leadership department; and must be in Secondary Educ: Mathematics program. Credit only granted for: EDCI451 or TLPL411. Formerly: EDCI451.

Contact department for information to register for this course.

TLPL413 **Teaching and Learning Middle School Mathematics**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

Restriction: Minimum cumulative GPA of 2.75; and permission of EDUC-Teaching and Learning, Policy and Leadership department. Credit only granted for: EDCI457 or TLPL413. Formerly: EDCI457.

Methods of teaching and assessing the middle school mathematics curriculum. Understanding the conceptual difficulties students have in moving from whole numbers to rational numbers, additive thinking to multiplicative thinking, and arithmetic to algebra. Lesson planning and selection of technology and other materials are applied in the context of supervised tutoring of students having difficulty in middle school mathematics. Lab and field experience required. Supervised tutoring takes place on site at a local middle school therefore TLPL413 students will be expected to travel to a local middle school for 8-10 of the class meetings.

0101	Monica Dunsworth TuTh 3:10pm - 5:00pm	Seats (Total: 25) EDU 2121

TLPL418 **Teaching Residency**

Credits: 9 | Grading Method: Sat-Fail

An extended teaching internship in an Elementary Professional Development School. School placements to be arranged.

Contact department for information to register for this course.

TLPL420 **Knowledge, Reasoning, and Learning in Science**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

Restriction: Minimum cumulative GPA of 2.75; and permission of EDUC-Teaching and Learning, Policy and Leadership department. Credit only granted for: TLPL420 or EDCI411. Formerly: EDCI411.

For prospective science teachers. Investigations of the nature of knowledge, reasoning, and learning in middle and secondary science. Readings from cognitive science and science education research; studies of student thinking in interview and classroom observations; analyses of curricula. Includes laboratory and field experiences.

0101	Daniel Levin TuTh 3:30pm - 4:45pm	Seats (Total: 15) EDU 2212
SG91	Jennifer Mesiner MW 9:30am - 10:45am *Registration is restricted to Biological Sciences-Shady Grove majors. Permission is required for all other students to enroll in courses at Shady Grove. Please email usgbiosci@umd.edu for permission.*	Seats (Total: 36) BLD3 2133

TLPL423 **Interdisciplinary Teaching in the Middle Grades I**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: TLPL413 and TLPL420; or permission of instructor. Corequisite: EDCI360 and TLPL475. Restriction: Minimum cumulative GPA of 2.75; and must be in the Middle School Teacher Education Program, major code 0804P. Credit only granted for: EDCI413 or TLPL423. Formerly: EDCI413.

For prospective middle school teachers. Studying and planning interdisciplinary instructional practices in middle school. Utilizes context and experiences from students' field placements. Use of technology and incorporation of technology into instruction.

0101	Janet Walkoe	Seats (Total: 20)
	Th 10:00am - 11:50am	EDU 3236
	This class is part of an education block/cluster. Do not change the seat limit or remove the cap. Any questions, see Suzanne.	

TLPL425 **Learning and Teaching in Science**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: TLPL420; or permission of instructor. Restriction: Must be in Secondary Educ: Science program. Credit only granted for: EDCI470 or TLPL425. Formerly: EDCI470.

Studies of student learning and instructional practices in science teaching.

0101	Daniel Levin	Seats (Total: 20)
	M 5:00pm - 8:00pm	PHY 1120

TLPL430 **Field Experience in Art Education**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of EDUC-Teaching and Learning, Policy and Leadership department; and must be in Secondary Educ: Art program. Credit only granted for: EDCI400 or TLPL430. Formerly: EDCI400.

Practical classroom experience in teaching/evaluating/exhibiting the products of art lessons.

Six hours for field experience required.

0101	Susan Hendricks	Seats (Total: 10)
	Contact instructor or department for details.	

TLPL433 **Foundations of Art Education**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Restriction: Minimum cumulative GPA of 2.75. Credit only granted for: EDCI403 or TLPL433. Formerly: EDCI403.

Introduction to the field of Art Education and the role of the visual arts in grades PreK-12 for today's diverse school populations. The fundamental, historical and philosophic components of art education with an emphasis on arts disciplines and curriculum. Includes a school-based practicum. For those considering art education as a major.

0101	Margaret Walker Th 9:00am - 12:00pm	Seats (Total: 19) EDU 1315

TLPL436 **Studio Processes and Materials: 2D**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTT210. Restriction: Minimum cumulative GPA of 2.75; and permission of EDUC-Teaching and Learning, Policy and Leadership department; and junior standing or higher; and must not be in any of the following programs (Early Childhood Education; Elementary Education; Secondary Educ: Science; Secondary Educ: English Language Arts; Secondary Educ: Mathematics; Secondary Educ: Foreign Languages; Secondary Educ: Social Studies; Physical Education; Music Education; Special Education). Credit only granted for: EDCI406 or TLPL436. Formerly: EDCI406.

A discussion/studio format used to develop skills, materials, resources and education strategies for using technology and two-dimensional art in K-12 programs.

0101	Margaret Walker Th 12:30pm - 4:05pm	Seats (Total: 19) EDU 1315

TLPL440 **Issues in the Education of English Language Learners**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: EDCI432 or TLPL440. Formerly: EDCI432.

Introduction to and analysis of current and historical research, practice, trends, and public policy issues in education as they relate to English language learners in K-12 and other settings.

0101	Andres Garcia TuTh 9:30am - 10:45am	Seats (Total: 25) EDU 2102

TLPL442 **Foundations of Literacy and Biliteracy Development**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: EDCI435 or TLPL442. Formerly: EDCI435.

An overview of the research on literacy and biliteracy development for English learners. Specifically, the course explores the theoretical models and processes of teaching reading and writing, current literacy/biliteracy issues, assessment, and strategies for developing literacy and biliteracy skills for English learners.

0101	Christina Budde MW 11:00am - 12:15pm	Seats (Total: 25) EDU 2102

TLPL443 **Understanding Cross-Cultural Communication for Teaching English Language Learners**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DVCC

Credit only granted for: EDCI436 or TLPL443. Formerly: EDCI436.

Theories of intercultural communication and techniques for applying them in the teaching of English as a second language (ESL) and content classes. Research and evaluation of selected aspects of a culture as basis for creating, selecting and using culturally-responsive teaching materials and methods.

0101	Melinda Martin-Beltran M 1:15pm - 4:00pm	Seats (Total: 25) EDU 3233

TLPL445 **Methods I: K-12 World Language Methods and Technology**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Restriction: Minimum cumulative GPA of 2.75; and permission of EDUC-Teaching and Learning, Policy and Leadership department. Credit only granted for: EDCI410, TLPL445, EDCI688K, or TLPL695. Formerly: EDCI410.

The first of two sequential courses required for achieving competence i teaching a foreign language. The sequel to this course is EDCI433 (Methods II) entitled: Advanced K-12 Foreign Language Methods and Technology. EDCI410 requires on-going examination of theories relevant to language acquisition. Students will also investigate the instructional methods that reflect those theories. Lab and field experiences required.

0101	Perla Blejer, Tabitha Kidwell MW 2:00pm - 3:15pm	Seats (Total: 15) EDU 3315

TLPL446 **Language Variation and Multilingualism in Elementary Classrooms**

Credits: 3 Grading Method: Regular

Restriction: Must be in Elementary Education program; and minimum cumulative GPA of 2.75. Or permission of EDUC-Teaching and Learning, Policy and Leadership department.

Issues in language variation and multilingualism in elementary classrooms, schools and communities with a focus on classroom practice, assessment, and policy.

0101	Lijuan Shi Tu 8:30am - 11:15am	Seats (Total: 0) EDU 2121
0201	Margaret Marcus W 12:00pm - 2:45pm	Seats (Total: 0) EDU 1315
0301	Margaret Marcus M 12:00pm - 2:45pm	Seats (Total: 0) TYD 1108

TLPL447 **Art Education Methods II**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: TLPL435; or students who have taken courses with comparable content may contact the department. Corequisite: TLPL430. Restriction: Minimum cumulative GPA of 2.75; and must be in Secondary Educ: Art program. Credit only granted for: EDCI423, EDCI603, TLPL447 or TLPL633. Formerly: EDCI423.

Methods II builds upon the pedagogical foundation of Methods I and provides future art teachers with the means for developing pre K-12 art lessons and unit plans for a balanced qualitative art program for today's diverse and inclusive schools and classrooms.

0101	Susan Hendricks Tu 9:00am - 12:00pm	Seats (Total: 18) EDU 1315

TLPL450 **Advanced K-12 World Language Methods and Technology**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: TLPL445. Corequisite: EDCI438. Restriction: Must be in Secondary Educ: Foreign Languages program; and minimum cumulative GPA of 2.75. Or permission of EDUC-Teaching and Learning, Policy and Leadership department. Credit only granted for: EDCI433, EDCI688A, TLPL450 or TLPL696. Formerly: EDCI433.

Teaches advanced best practices for effective foreign language instruction. Topics include: using authentic assessment and materials, applying national standards, teaching writing and culture, motivating students, providing strategy instruction, infusing technology, preparing for K-12 employment, and creating a professional portfolio.

EDCI438 must be taken concurrently with EDCI433.

0101	Perla Blejer, Carmen Durham M 5:00pm - 7:45pm	Seats (Total: 10) EDU 2102	

TLPL451 **Teaching and Learning in Secondary Education: English**

(Perm req)

Credits: 3 Grading Method: Regular General Education: DSSP

Credit only granted for: EDCI416 or TLPL451. Formerly: EDCI416.

An introduction for prospective middle and secondary English teachers into the basic issues, concepts, orientations, and processes that shape the teaching of English for diverse students in schools. Candidates explore their own perspectives in relation to local and national trends and develop basic teaching understanding and skills through on-campus seminars, teaching laboratory experiences, and guided field experiences. Students should reserve one full day or two half days per week for field experience.

0101	Peggy Wilson M 8:30am - 10:15am W 8:30am - 10:15am	Seats (Total: 25) EDU 2121 EDU 2121	 Lab
0102	Peggy Wilson M 8:30am - 10:15am M 2:30pm - 4:15pm	Seats (Total: 10) EDU 2121 SQH 1121	 Lab

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TLPL456 **Teaching Writing**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Corequisite: EDCI447. Restriction: Must be in Secondary Educ: English Language Arts program; and minimum cumulative GPA of 2.75. Or permission of EDUC-Teaching and Learning, Policy and Leadership department. Credit only granted for: EDCI467 or TLPL456. Formerly: EDCI467.

Examines current theory, research, best practice, curricula and materials for teaching written communication in grades K-12. Focuses on analytical, argumentative, informative/explanatory, literary analysis, narrative, descriptive, and research writing. Emphasizes instructional planning, assessment, writer problem-solving strategies, information search, development, organization and style appropriate to task, purpose and audience for both non-digital and digital text. English Language Learner and special needs pupil issues considered.

0101	Wayne Slater	Seats (Total: 30)
	Th 5:00pm - 7:45pm	EDU 2121

TLPL457 **Literature for Adolescents**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHU

Restriction: Minimum cumulative GPA of 2.75; and permission of EDUC-Teaching and Learning, Policy and Leadership department. Credit only granted for: EDCI466 or TLPL457. Formerly: EDCI466.

Reading and analysis of fiction and nonfiction; methods for critically assessing quality and appeal; current theory and methods of instruction; research on response to literature; curriculum design and selection of books.

0101	Olivia Murphy	Seats (Total: 30)
	M 5:00pm - 7:45pm	EDU 2119

TLPL460 **Materials and Instruction for Creating Skilled and Motivated Readers, Part I**

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Must be in Elementary Education program; and junior standing or higher. Or permission of EDUC-Teaching and Learning, Policy and Leadership department. Credit only granted for: EDCI461 or TLPL460. Formerly: EDCI461.

Selecting, evaluating, and using a variety of materials and instructional strategies to create skilled and motivated readers in the elementary grades; Topics include emergent literacy, vocabulary development, reading comprehension and oral reading fluency in diverse classroom settings.

Contact department for information to register for this course.

TLPL462 **Reading in the Secondary School**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Minimum cumulative GPA of 2.75; and must be in one of the following programs (Middle School Education; Secondary Educ: Science; Secondary Educ: English Language Arts; Secondary Educ: Mathematics; Secondary Educ: Foreign Languages; Secondary Educ: Social Studies; Secondary Educ: Art) ; and permission of department required for post-baccalaureate students. Credit only granted for: EDCI463 or TLPL462. Formerly: EDCI463.

Provides secondary school teachers with understanding the need for and approaches to teaching students to read and learn from content area texts.

0201	Olivia Saracho	Seats (Total: 23)
	W 2:00pm - 4:30pm	EDU 2101

TLPL470 **Knowledge, Reasoning, and Learning in Secondary Social Studies**

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Permission of EDUC-Teaching and Learning, Policy and Leadership department; and minimum cumulative GPA of 2.75. Credit only granted for: EDCI426 or TLPL470. Formerly: EDCI426.

An exploration of the nature of knowledge and reasoning in social studies disciplines as well as how students learn social studies. Assessment and investigation of students' conceptions and misconceptions as well as their disciplinary thinking. Implications for teaching and initial lesson design are explored through on-campus seminars as well as guided field experiences. Students should reserve a regular half-day per week for the field experience in local schools. This course is required for admission to the secondary social studies double major.

0101	Lisa Eaker	Seats (Total: 30)
	Th 4:15pm - 7:00pm	EDU 0220

TLPL471 **Curriculum, Teaching, and Assessment in Secondary Social Studies**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Prerequisite: TLPL470. Corequisite: EDCI428. Restriction: Must be in Secondary Educ: Social Studies program; and minimum cumulative GPA of 2.75. Or permission of EDUC-Center for Learning & Educational Technology. Credit only granted for: EDCI427 or TLPL471. Formerly: EDCI427.

An exploration of curriculum development, teaching, and assessment in secondary history/social studies. Focus on identifying students' conceptions of social studies topics and designing lessons that advance students' disciplinary thinking and understanding.

0101	Alison Jovanovic	Seats (Total: 15)
	Tu 5:30pm - 8:15pm	ASY 3217

TLPL475 **Equitable Classrooms**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: TLPL252, TLPL413, and TLPL420. Corequisite: EDCI360 and TLPL423. Restriction: Minimum cumulative GPA of 2.75; and must be in Middle School Education program. Credit only granted for: EDCI424 or TLPL475. Formerly: EDCI424.

An exploration and application of major theoretical frameworks surrounding equity and critical pedagogy. Creating habits of mind that help teachers see all students as capable of achieving at high levels. Draws on the concurrent field experience.

0101	Kristin Sinclair	Seats (Total: 20)
	Tu 10:00am - 12:00pm	EDU 2101

TLPL478D **Professional Seminar in Education; Mathematics**

Credits: 1 Grading Method: Regular

Seminar on the issues and problems teacher candidates encounter in classrooms. Exploration of the skills and strategies that best address these challenges.

0101	Instructor: TBA	Seats (Total: 1)
	Contact instructor or department for details.	

TLPL479A **Field Experiences in Education; Art Education**

(Perm req)

Credits: 1 Grading Method: Sat-Fail

Field experiences in approved eduation setting with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students admitted to approved teacher education programs.

0101	Susan Hendricks	Seats (Total: 10)
	Contact instructor or department for details.	

TLPL479B **Field Experiences in Education; Secondary Social Studies Education**

(Perm req)

Credits: 1 Grading Method: Sat-Fail

Field experiences in approved eduation setting with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students admitted to approved teacher education programs.

0101	Alison Jovanovic	Seats (Total: 35)
	Contact instructor or department for details.	

TLPL479C **Field Experiences in Education; English Education**

(Perm req)

Credits: 1 Grading Method: Sat-Fail

Field experiences in approved eduation setting with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students admitted to approved teacher education programs.

Secondary English/speech/drama education majors only. Students must reserve one full day per week for observation.

0101	Peggy Wilson	Seats (Total: 25)
	Contact instructor or department for details.	

TLPL479D **Field Experiences in Education; Secondary Mathematics Education**

(Perm req)

Credits: 1 Grading Method: Sat-Fail

Field experiences in approved eduation setting with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students admitted to approved teacher education programs.

0101	Angela Stoltz	Seats (Total: 20)
	Contact instructor or department for details.	

TLPL479E **Field Experiences in Education; Middle School Education**

(Perm req)

Credits: 1 Grading Method: Sat-Fail

Field experiences in approved eduation setting with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students admitted to approved teacher education programs.

0101	Stacy Currie	Seats (Total: 20)
	Contact instructor or department for details.	

TLPL479F **Field Experiences in Education; Science Education**

(Perm req)

Credits: 1 Grading Method: Sat-Fail

Field experiences in approved eduation setting with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students admitted to approved teacher education programs.

0101	Tranae Johnson	Seats (Total: 15)
	Contact instructor or department for details.	

TLPL479G **Field Experiences in Education; Tutoring**

(Perm req) Credits: 1 Grading Method: Sat-Fail

Field experiences in approved eduation setting with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students admitted to approved teacher education programs.

Must be an Elementary Education major with a minimum cumulative GPA of 2.75. Most schools are within a 20 minute commute with more travel time needed if public transportation is required. Allow for travel time between on-campus coursework and the off-campus school experience. All schools require a background check and fingerprinting, which must be completed annually, prior to the start of the experience, at an additional cost of approximately $62.

0101	Leslie Gettier M 9:00am - 12:00pm	Seats (Total: 12) Location: TBA	Lab
0102	Leslie Gettier M 12:30pm - 3:30pm	Seats (Total: 12) Location: TBA	Lab
0103	Leslie Gettier Tu 9:00am - 12:00pm	Seats (Total: 12) Location: TBA	Lab
0104	Leslie Gettier Tu 12:30pm - 3:30pm	Seats (Total: 12) Location: TBA	Lab
0105	Leslie Gettier Tu 3:00pm - 6:00pm	Seats (Total: 12) Location: TBA	Lab
0106	Leslie Gettier W 9:00am - 12:00pm	Seats (Total: 12) Location: TBA	Lab
0107	Leslie Gettier W 11:00am - 2:00pm	Seats (Total: 12) Location: TBA	Lab
0108	Leslie Gettier W 3:00pm - 6:00pm	Seats (Total: 6) Location: TBA	Lab
0109	Leslie Gettier Th 9:00am - 12:00pm	Seats (Total: 12) Location: TBA	Lab
0110	Leslie Gettier Th 11:00am - 2:00pm	Seats (Total: 12) Location: TBA	Lab

0111	Leslie Gettier Th 3:00pm - 6:00pm	Seats (Total: 6) Location: TBA	Lab
0112	Leslie Gettier F 9:00am - 12:00pm	Seats (Total: 12) Location: TBA	Lab
0113	Leslie Gettier F 12:00pm - 3:00pm	Seats (Total: 12) Location: TBA	Lab
0114	Leslie Gettier Th 6:00pm - 9:00pm	Seats (Total: 12) Location: TBA	Lab

TLPL479J **Field Experiences in Education; Second Language Education**

(Perm req)

Credits: 1 Grading Method: Sat-Fail

Field experiences in approved eduation setting with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students admitted to approved teacher education programs.

0101	Perla Blejer Contact instructor or department for details.	Seats (Total: 10)

TLPL481 **Embracing Diversity in the Classroom Community**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Admission to teacher education program; or permission of EDUC-Teaching and Learning, Policy and Leadership department. Credit only granted for: TLPL481 or EDCI475. Formerly: EDCI475.

An exploration of the richness and complexity of student diversity that teacher candidates will encounter in K-12 classrooms. Students will engage in critical reflection around diversity and equity issues.

0101	Rossina Liu, Jennifer Burris Tu 3:30pm - 6:15pm	Seats (Total: 25) JMZ 0103

TLPL488E **Special Topics in Education; Engineering Education: Theory and Practice for Learning Assistants**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Special and intensive treatment of current topics and issues in teaching, learning, policy and leadership.

0101	Jackelyn Lopez Roshwalb, Chandra Turpen Tu 5:00pm - 7:30pm	Seats (Total: 20) PHY 4222

TLPL488F **Special Topics in Education; Promoting Skilled and Motivated Readers in Elementary Classrooms (Part 2)**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special and intensive treatment of current topics and issues in teaching, learning, policy and leadership.

0101	Jennifer Himmel Tu 12:10pm - 2:45pm	Seats (Total: 0) EDU 1315
0201	Ayanna Baccus W 8:30am - 11:15am	Seats (Total: 0) EDU 2212
0301	Jennifer Himmel M 8:30am - 11:15am	Seats (Total: 0) TYD 2110

TLPL488M **Special Topics in Education; Knowing and Learning**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHS

Special and intensive treatment of current topics and issues in teaching, learning, policy and leadership.

Prerequisite: permission of department.

0101	Andrew Elby, Kayla White W 4:00pm - 6:50pm	Seats (Total: 22) PHY 1108

TLPL488P **Special Topics in Education; Project Based Instructioin (PBI)**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special and intensive treatment of current topics and issues in teaching, learning, policy and leadership.

Pre- or Co-requisite: EDCI 488M. Please contact Anisha Campbell, amcamp10@umd.edu, for registration permission and additional course information. Additional Information: Field experience for this course will require students to be available for a 2-4 hour block of time at various points throughout the semester to complete observations and teach lessons between 8:00 a.m. and 3:30 p.m. Fourth course in the Terrapin Teachers teacher preparation sequence. This course builds upon the inquiry-based practices developed in prior courses, with a focus on using project-based instruction for teaching math and science. Students will work closely with College of Education faculty and Master Teachers to develop and implement a multi-day series of lessons in a local high school class. This mini-unit includes a field study experience for the high school students.

0101	Sarah Henson-Darko TuTh 3:30pm - 4:50pm	Seats (Total: 33) PHY 1108

TLPL488R **Special Topics in Education; Assessing Language and Literacy Development in Elementary Classrooms**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special and intensive treatment of current topics and issues in teaching, learning, policy and leadership.

0101	Tara Johnston Tu 9:00am - 11:45am	Seats (Total: 28) EDU 3236
0201	John O'Flahavan Th 9:00am - 11:45am	Seats (Total: 28) EDU 2212
0301	John O'Flahavan M 9:00am - 11:45am	Seats (Total: 28) EDU 3236

TLPL489 **Internship in Education**

(Perm req)

Credits: 1-12 Grading Method: Sat-Fail

Internship or residency experiences in school settings with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students admitted to approved teacher education programs.

Contact department for information to register for this course.

TLPL489D **Internship in Education; Mathematics**

(Perm req)

Credits: 12 Grading Method: Sat-Fail

Internship or residency experiences in school settings with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students admitted to approved teacher education programs.

Contact department for information to register for this course.

TLPL489G **Internship in Education; TEACHING RESIDENCY**

(Perm req)

Credits: 3 Grading Method: Sat-Fail

Internship or residency experiences in school settings with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students admitted to approved teacher education programs.

There is a lab fee of $375 associated with this course

0101	Lisa Bote, Deborah Lewin Contact instructor or department for details. F 9:00am - 11:50am	Seats (Total: 0) SHM 2102
0201	Lisa Bote, Brooke Dalesio Contact instructor or department for details. F 9:00am - 11:50am	Seats (Total: 0) SHM 2102
0301	Lisa Bote, Tracy Dunheimer Contact instructor or department for details. F 9:00am - 11:50am	Seats (Total: 0) SHM 2102

TLPL498 **Special Problems in Education**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Exploration of current problems in teaching, learning, policy and leadership. Available only to students who have definite plans for study of approved problems.

Contact department for information to register for this course.

TLPL600 **Learning with Technology**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: EDCI687 or TLPL600. Formerly: EDCI687.

Provides a concrete, hands-on introduction to teaching and learning with technology. We will explore digital technology and its impact on learning and institutions. We will consider big ideas of the field as well as specific types of learning technologies and pedagogies for use in K-12 classrooms. We will discuss K-12 teaching methods that address the interdisciplinary nature of technology integration. The course will draw on class discussions, inquiry, instructional technology, and collaborative lab-based activities and prepare you to merge technology with your current teaching practice. Assessment with and of technology will also be explored.

Contact department for information to register for this course.

TLPL606 **Teaching and Learning Mathematics in Secondary Schools**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Enrollment in a University of Maryland program leading to teacher certification; and bachelor's degree in mathematics or related field; and 2 semesters of calculus. Credit only granted for: EDCI651 or TLPL606. Formerly: EDCI651.

Objectives, selection and organization of subject matter, appropriate methods, lesson plans, textbooks, technology and other instructional materials; assessment of student learning and other topics pertinent to secondary mathematics education. Internship of other placement in a secondary mathematics classroom is required.

Prerequisite: Permission of department.

Contact department for information to register for this course.

TLPL607 **Teaching and Learning Mathematics in the Elementary School**

Credits: 3 Grading Method: Regular

Prerequisite: MATH212, MATH213, or MATH214; or students who have taken courses with comparable content may contact the department. Credit only granted for: EDCI652 or TLPL607. Formerly: EDCI652.

Strategies and methodologies for the teaching of elementary school mathematics based on current research and theories about how children learn mathematics. Attention is given to professional recommendations and teaching practices that foster communication, reasoning, and reflection in the mathematics classroom. Internship or other placement in an elementary school is required.

Contact department for information to register for this course.

TLPL610 **Trends in Mathematics Education**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: EDCI650 or TLPL610. Formerly: EDCI650.

Recent developments in educational thinking and practice which have affected the curriculum in mathematics.

Contact department for information to register for this course.

TLPL611 **Teaching and Learning Number in the Middle Grades**

Credits: 3 Grading Method: Regular, Audit

Restriction: Admission to M.A or M.Ed. w/ concentration in Mathematics Education; or permission of EDUC-Teaching and Learning, Policy and Leadership department. Credit only granted for: EDCI683 or TLPL611. Formerly: EDCI683.

Students develop reflective, theoretical perspectives toward and practical approaches for the teaching and learning of the number system in middle school. There is an emphasis on rational numbers and its pedagogical content knowledge.

Contact department for information to register for this course.

TLPL616 **Teaching and Learning Statistics in the Middle School**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Admission to M.Ed. or M.A. program in EDCI with concentration in Mathematical Education. Credit only granted for: EDCI656 or TLPL616. Formerly: EDCI656.

Designed to enhance both the pedagogical and statistical/data analysis content knowledge of middle school mathematics teachers.

Contact department for information to register for this course.

TLPL621 **Learning and Teaching in the Physical Sciences I**

Credits: 3 Grading Method: Regular, Audit

Restriction: Enrollment in an EDCI Outreach Program in science education; or must be in Curriculum and Instruction (Master's) program; or permission of instructor. Credit only granted for: EDCI604 or TLPL621. Formerly: EDCI604.

Engagement in laboratory and inquiry-based methods to develop coherent understandings about the physical world and explore issues in the physical sciences. Personal engagements with phenomena and reflection on the learning and instructional experiences.

Contact department for information to register for this course.

TLPL625 **Teaching Science in Elementary Schools**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: EDCI671 or TLPL625. Formerly: EDCI671.

Identification of problems in teaching science. Methods for improving the effectiveness of science education.

Contact department for information to register for this course.

TLPL626 **Learning to Teach and Learn Science**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: TLPL420; or permission of EDUC-Teaching and Learning, Policy and Leadership department. Restriction: Must be in the Maryland Master's Certification program; or permission of EDUC-Teaching and Learning, Policy and Leadership department. Credit only granted for: EDCI675 or TLPL626. Formerly: EDCI675.

Developing practices of instruction in science teaching in the context of understanding student science learning.

Contact department for information to register for this course.

TLPL631 **Historical Foundations of the Arts in Education**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: EDCI601 or TLPL631. Formerly: EDCI601.

An investigation into major historical events and underlying beliefs, values and practices that influence contemporary arts education (visual art, drama, dance, music) at all levels of instruction. Selected literature that focuses on cultural contexts, individuals, institutions, events and national and international perspectives is used to investigate changing conceptions and practices of arts education.

0101	Margaret Walker	Seats (Total: 17)
	Tu 4:15pm - 7:00pm	EDU 1315

TLPL633 **Integrated Art Methods**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EDCI680; or TLPL435. Restriction: Must be in a major within the EDUC-Teaching and Learning, Policy and Leadership department. Credit only granted for: EDCI423, EDCI603, TLPL447 or TLPL633. Formerly: EDCI603.

Builds upon the pedagogical foundation of an initial art education methods course and provides future art teachers with the means for developing PreK-12 art lesson/unit plans for a balanced qualitative art program for today's diverse and inclusive schools/classrooms. Integratin g art with other subject areas.

Contact department for information to register for this course.

TLPL636 **Trends in Secondary School Curriculum: English**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: EDCI640 or TLPL636. Formerly: EDCI640.

Recent developments in educational thinking and practice on the curriculum in English education.

Contact department for information to register for this course.

TLPL640 **Assessing, Diagnosing, and Teaching Writing**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of EDUC-Teaching and Learning, Policy and Leadership department. Credit only granted for: EDCI673 or TLPL640. Formerly: EDCI673.

Examines current theory, research, best practice, curricula and materials for teaching written communication in middle and secondary schools in order to survey, review and select formal and informal assessments and diagnostic strategies useful for writing teachers. Focuses on validity and reliability issues. Includes instructional planning and development of instructional materials for implementing appropriate individual, small-group and large-group instruction. English Language Learner (TESOL and SIOP) and special needs (inclusion) pupil issues considered.

Contact department for information to register for this course.

TLPL641 **Reading, Cognition, and Instruction: Reading in the Content Areas I**

Credits: 3 Grading Method: Regular

Credit only granted for: EDCI625 or TLPL641. Formerly: EDCI625.

Provides middle and secondary education students with an understanding of the interactive nature of the reading process, the use of research-based instructional strategies, the relationship between vocabulary development and student concept development, the design of strategic reading instruction, the methods for assessing content area literacy, and the ability to plan instruction and communicate with students, parents, and allied professionals.

Contact department for information to register for this course.

TLPL644 **Foundations of Reading**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EDCI362; or TLPL462; or students who have taken courses with comparable content may contact the department. Credit only granted for: EDCI660 or TLPL644. Formerly: EDCI660.

Broad and comprehensive overview of reading and literacy and factors that may influence effective reading practices such as instruction, classroom environment and individual differences. Focus on different knowledge domains and traditions of inquiry related to reading and reading instruction.

0101	Erin Hogan Tu 5:15pm - 8:00pm	Seats (Total: 20) EDU 2121

TLPL645 **Content Area Reading**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EDCI362; or TLPL462; or students who have taken courses with comparable content may contact the department. Credit only granted for: EDCI661 or TLPL645. Formerly: EDCI661.

Research-based strategies for improving reading to learn in the content areas (K-12).

0101	Ying Alice Zhang Tu 5:00pm - 7:45pm	Seats (Total: 20) KNI 1103

TLPL647 **Diagnostic Reading Assessment and Instruction**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of EDUC-Teaching and Learning, Policy and Leadership department. Credit only granted for: EDCI662 or TLPL647. Formerly: EDCI662.

Survey course in diagnostic reading assessment and instruction for graduate students not majoring in reading.

Contact department for information to register for this course.

TLPL650 **Understanding, Evaluating and Using Research in School Reading Programs**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: EDCI663 or TLPL650. Formerly: EDCI663.

Focus on understanding, critiquing, and applying reading/literacy research; reviewing research to improve practice; analyzing data at the district, school, classroom, and student levels to improve reading instruction.

0101	Mariam Dreher Th 5:00pm - 7:45pm	Seats (Total: 25) EDU 1121

TLPL653 **Clinical Assessment in Reading**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: TLPL645 and TLPL650; or permission of EDUC-Teaching and Learning, Policy and Leadership department. Credit only granted for: EDCI664 or TLPL653. Formerly: EDCI664.

Clinical diagnostic techniques and materials for assessing reading strengths and needs.

0101	Ayanna Baccus	Seats (Total: 25)
	M 5:00pm - 7:45pm	EDU 1107

TLPL656 **Special Education and Oral Language Development in TESOL**

Credits: 3 Grading Method: Regular

Credit only granted for: EDCI632 or TLPL656. Formerly: EDCI632.

Understanding of pre-referal, referal, assessment and identification process, as well as instruction of English Language Learners with learning disabilities. Required for TESOL Certification program.

0101	Drew Fagan	Seats (Total: 20)
	Th 5:00pm - 7:45pm	EDU 3236

TLPL657 **Teaching for Cross Cultural Communication**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: EDCI633 or TLPL657. Formerly: EDCI633.

Theories of intercultural communication and techniques for applying them in the teaching of English as a second language (ESL) and content classes. Research and evaluation of selected aspects of a culture as basis for creating, selecting and using culturally-responsive teaching materials and methods.

0101	Melinda Martin-Beltran	Seats (Total: 13)
	W 5:00pm - 7:45pm	EDU 2102

TLPL660 **Foundations of Literacy and Biliteracy Development**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: TLPL665. Credit only granted for: EDCI636 or TLPL660. Formerly: EDCI636.

An overview of the research on literacy and biliteracy development for English learners. Specifically, the course explores the theoretical models and processes of teaching reading and writing, current literacy/biliteracy issues, assessment, and strategies for developing literacy and biliteracy skills for English learners.

Contact department for information to register for this course.

TLPL661 **Multiliteracies: Theory and Practice**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: TLPL665. Credit only granted for: EDCI638, EDCI688J, or TLPL661. Formerly: EDCI638 and EDCI688J.

Explores the theoretical constructs and practical manifestations of multiliteracies in communities and schools by presenting an overview of the research on the constructs of New Literacy Studies, Critical Literacy, Digital Literacy, and Funds of Knowledge, as well as the practical implications of teaching reading and writing to culturally and linguistically diverse learners in content areas (i.e., language arts, math, science, social studies, etc.) in classrooms.

0101	Angelica Montoya Avila	Seats (Total: 20)
	Tu 5:00pm - 7:45pm	JMZ 1124

TLPL664 **Foundations of Second Language Education: Legal, Social and Historical Trends and Issues**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: EDCI630 or TLPL664. Formerly: EDCI630.

Knowledge of history, research, current practice and public policy issues in the field of second languague education from kindergarten to post-secondary settings. Required for TESOL certification program.

0101	Karen Feagin	Seats (Total: 20)
	Class time/details on ELMs	ONLINE

TLPL665 **Methods of Teaching ESOL**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: EDCI634 or TLPL665. Formerly: EDCI634.

This course presents a survey of the historical and current approaches, methods, and techniques of teaching English to speakers of other languages, from grammar to translation to audiolingual and communicative approaches. Additionally, successful classroom practices that address the needs of culturally diverse and language minority students will be analyzed.

0101	Loren Jones	Seats (Total: 20)
	M 5:00pm - 7:45pm	EDU 1315

TLPL666 **English Grammar for Teachers of English to Speakers of Other Languages**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of EDUC-Teaching and Learning, Policy and Leadership department. Credit only granted for: EDCI635 or TLPL666. Formerly: EDCI635.

English grammar and methods of teaching grammar for graduate, prospective and current teachers of English to speakers of other languages. Analysis of the major grammatical structures of American English. Discussion of the role of teaching grammar, and effective classroom methods and techniques for the English as a second/foreign language classroom.

0101	Denis Sullivan	Seats (Total: 25)
	Tu 5:00pm - 7:45pm	EDU 1107

TLPL668 **Developing a Professional Portfolio**

Credits: 1-3 Grading Method: Regular, Audit

Students will examine issues of performance assessment and develop professional portfolios following the guidelines established by the National Board of Professional Teaching Standards. Drawing on the research data collected throughout their program and relying on inquiry, reflections, and analysis, they will synthesize and present the body of their teaching experience.

Contact department for information to register for this course.

TLPL670 **Economics of Education**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: EDPS615 or TLPL670. Formerly: EDPS615.

An introduction to the application of economic principles to the study of education policy. The course content revolves around issues of efficiency, equity, and freedom of choice. Specific attention is devoted to school finance litigation and reform, practices for raising and allocating resources, and education productivity issues.

0101	David Blazar	Seats (Total: 20)
	W 1:00pm - 3:45pm	SYM 0209

TLPL671 **Education Policy Analysis**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: EDPS620 or TLPL671. Formerly: EDPS620.

Policy making in education from planning to evaluation with emphasis on the identification of policy problems and the resources available to analysts through multi-disciplinary approaches. An introductory experience with education policy analysis.

0101	Betty Malen	Seats (Total: 20)
	Tu 4:15pm - 7:00pm	EDU 3233

TLPL674 **Studying Student Learning in Diverse Settings**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: EDCI611 or TLPL674. Formerly: EDCI611.

This course deepens teacher understanding of student development and th cultural context for teaching through readings and focused field studies. Participants will also begin developing skills needed for investigations using methods of interpretive inquiry.

Contact department for information to register for this course.

TLPL675 **Embracing Diversity in Classroom Communities**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: EDCI697 or TLPL675. Formerly: EDCI697.

The course aims to help students understand race, class, gender, and sexuality as systems of privilege, exclusion, marginalization, and the centrality of embracing diversity in the classroom communities to promote the success of all students.

0101	Taharee Jackson	Seats (Total: 25)
	Tu 7:15pm - 10:00pm	EDU 1121

TLPL677 **Reframing Teacher Professionalism: Achieving Teacher Leadership**

Credits: 3

Grading Method: Regular, Audit

Credit only granted for: EDCI682 or TLPL677. Formerly: EDCI682.

Understanding the profession of teaching, teacher leadership, and the knowledge base that undergirds the teaching profession. Multiple perspectives on teaching in the current debate on school reform and how they are aligned across the political spectrum.

0101	David Imig	Seats (Total: 20)
	W 4:30pm - 7:00pm	EDU 2119

TLPL678 **Professional Seminar in Education**

Credits: 1-3

Grading Method: Regular, Audit

Seminar on the issues and problems teacher candidates encounter in classrooms. Exploration of the skills and strategies that best address these challenges.

Contact department for information to register for this course.

TLPL683 **Educational Sociology**

Credits: 3

Grading Method: Regular, Audit

Credit only granted for: TLPL683 or EDPS613. Formerly: EDPS613.

The sociological study of education as an evolving set of methods and procedures, and body of knowledge. Focuses on several major theoretical perspectives used by sociologists studying education.

0101	Claudia Galindo	Seats (Total: 20)
	W 4:15pm - 7:00pm	EDU 3233

TLPL685 **Teaching Social Studies in Elementary Schools**

Credits: 3

Grading Method: Regular, Audit

Credit only granted for: EDCI622 or TLPL685. Formerly: EDCI622.

Examination of current literature and research in the social sciences as they relate to social studies curriculum and instruction.

Contact department for information to register for this course.

TLPL686 **Secondary Social Studies Pedagogy**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: TLPL470; or EDCI680. Credit only granted for: EDCI627 or TLPL686. Formerly: EDCI627.

The second course in a three-course teaching methods sequence. Addresses two key questions: (1) How do secondary school students think about and learn history/social studies? (2) How can secondary teachers teach history/social studies in ways that promote student learning?

Contact department for information to register for this course.

TLPL688C **Special Topics in Education; Teaching Middle School Math for English Learners**

Credits: 3

Grading Method: Regular, Audit

Special treatment of current topics and issues in teaching, learning, policy and leadership.

Contact department for information to register for this course.

TLPL688K **Special Topics in Education; Methods I: K-12 Foreign Language Methods and Technology**

Credits: 3

Grading Method: Regular, Audit

Special treatment of current topics and issues in teaching, learning, policy and leadership.

0101	Tabitha Kidwell, Perla Blejer	Seats (Total: 5)
	MW 2:00pm - 3:15pm	EDU 3315

TLPL688R **Special Topics in Education; Explorations in Mathematics for Elementary Teachers**

Credits: 3

Grading Method: Regular, Audit

Special treatment of current topics and issues in teaching, learning, policy and leadership.

Contact department for information to register for this course.

TLPL689 **Internship in Education**

Credits: 1-9

Grading Method: Regular, Audit

Internship or residency experiences in school settings with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students admitted to approved teacher education programs.

Student lab fee may apply. Contact program for details.

0101	Perla Blejer Contact instructor or department for details.	Seats (Total: 10)
0201	Loren Jones Contact instructor or department for details.	Seats (Total: 10)

TLPL693 **Principles of Curriculum Development**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: EDPS635 or TLPL693. Formerly: EDPS635.

Curriculum planning, improvement, and evaluation in the schools; principles for the selection and organization of the content and learning experiences; ways of working in classroom and school on curriculum improvement.

0101	Mary Grace Snyder W 4:15pm - 7:00pm	Seats (Total: 20) EDU 2121

TLPL696 **Advanced K-12 World Language Methods and Technolog**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: TLPL695; and TLPL695. Corequisite: Must be concurrently enrolled in TLPL479J. Credit only granted for: EDCI433, EDCI688A, TLPL450 or TLPL696. Formerly: EDCI688A.

Teaches advanced best practices for effective World Language instruction. Topics include: lesson planning, using authentic assessment and materials, applying national and state standards infusing culture, interdisciplinary content and technology. Classroom management procedures and strategies to create a welcoming and engaging classroom environment. Motivating students and differentiated instruction.

0101	Perla Blejer, Carmen Durham M 5:00pm - 7:45pm	Seats (Total: 5) EDU 2102

TLPL698 **Conducting Research on Teaching**

(Perm req)

Credits: 1-3 Grading Method: Regular

Analysis and improvement of educational practice. Research methods used in the study of classroom teaching. Design and conduct of an action research project. Open only to students admitted to approved teacher education programs.

0101	Saroja Warner	Seats (Total: 20)
	Contact instructor or department for details.	

TLPL699 **Master's Seminar**

Credits: 3 Grading Method: Regular, Audit

Directed study for master's degree students writing seminar papers.

Contact department for information to register for this course.

TLPL713 **Mathematics and Science Education Policy, Professional Development and Teacher Preparation**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Admitted to Doctoral Program in Mathematics Education or Science Education; or permission of EDUC-Teaching and Learning, Policy and Leadership department. Credit only granted for: EDCI754 or TLPL713. Formerly: EDCI754.

Preservice teacher education, professional development, and policy as agents of reform in mathematics education and in science education.

0101	Andrew Brantlinger	Seats (Total: 20)
	M 4:15pm - 7:00pm	TWS 1321

TLPL728 **Research Seminar in Mathematics and Science Education**

Credits: 1 Grading Method: Regular, Audit

Read, plan, conduct, and report on research projects and research topics in mathematics and science education. Projects may be faculty/student projects, or group or individual student projects (may or may not be related to a dissertation). Emphasis on framing researchable questions and designing/analyzing research studies. Faculty and peer feedback and interaction are crucial expectations.

0101	Daniel Chazan	Seats (Total: 20)
	F 10:00am - 1:30pm	EDU 2121

TLPL743 **Teaching English Language Learners: Current and Future Research Directions**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: TLPL771 or TLPL662; or permission of EDUC-Teaching and Learning, Policy and Leadership department. Credit only granted for: EDCI734 or TLPL743. Formerly: EDCI734.

Research on the preparation of generalists and specialists teaching English Language Learners. Current research and future research directions.

0101	Megan Peercy	Seats (Total: 20)
	M 9:30am - 12:15pm	EDU 1315

TLPL774 **Urban Education**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: EDCI776 or TLPL774. Formerly: EDCI776.

This seminar provides students with a broad overview of urban education as a field of inquiry by examining the social context of urban schools, how transformative pedagogy is practiced and conceptualized as well as school reform.

0101	Tara Brown	Seats (Total: 20)
	M 4:15pm - 7:00pm	EDU 2121

TLPL788D **Special Topics in Education; Using Stata to Clean and Analyze Big Data in Education**

Credits: 1 Grading Method: Regular, Audit

Special and intensive treatment of current topics and issues in teaching, learning, policy and leadership.

This course will meet in the COE computer lab

0101	David Blazar	Seats (Total: 20)
	M 12:00pm - 12:50pm	Location: TBA

TLPL788E **Special Topics in Education; Professional Seminar in Urban Education**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Special and intensive treatment of current topics and issues in teaching, learning, policy and leadership.

0101	Tara Brown	Seats (Total: 20)
	Tu 4:15pm - 7:00pm	PLS 1158

TLPL788I **Special Topics in Education; Developing Conceptual Knowledge Through Oral and Written Language**

Credits: 3 Grading Method: Regular, Audit

Special and intensive treatment of current topics and issues in teaching, learning, policy and leadership.

0101	Mariam Dreher M 1:00pm - 3:45pm	Seats (Total: 20) EDU 2119

TLPL788K **Special Topics in Education; Seminar in Teaching and Supervision**

Credits: 1 Grading Method: Regular, Audit

Special and intensive treatment of current topics and issues in teaching, learning, policy and leadership.

0101	Colleen Gannon W 1:00pm - 3:00pm	Seats (Total: 15) TYD 0101

TLPL788P **Special Topics in Education; Core I**

Credits: 3 Grading Method: Regular, Audit

Special and intensive treatment of current topics and issues in teaching, learning, policy and leadership.

0101	Betty Malen Th 4:15pm - 7:00pm	Seats (Total: 25) EDU 1107

TLPL788Q **Special Topics in Education; Theories of Learning & Leadersihp with Technology**

Credits: 3 Grading Method: Regular

Special and intensive treatment of current topics and issues in teaching, learning, policy and leadership.

0101	Tamara Clegg W 12:00pm - 2:45pm	Seats (Total: 20) JMZ 1226

TLPL788R **Special Topics in Education; Applied Linguistics Doctoral Seminar**

(Perm req)

Credits: 1 Grading Method: Regular, Audit

Special and intensive treatment of current topics and issues in teaching, learning, policy and leadership.

0101	Andrew Elby M 1:00pm - 3:00pm	Seats (Total: 20) ASY 3217

TLPL788T **Special Topics in Education; Research Seminar in Technology, Learning & Leadership**

Credits: 1 Grading Method: Regular, Audit

Special and intensive treatment of current topics and issues in teaching, learning, policy and leadership.

0101	David Weintrop	Seats (Total: 10)
	Tu 1:00pm - 1:50pm	EDU 2102

TLPL789 **Internship in Education**

Credits: 1-3 Grading Method: Sat-Fail

Approved professional experiences with appropriate supervision. Open only to students admitted to approved master's and doctoral specializations.

Contact department for information to register for this course.

TLPL791 **Qualitative Research I: Design and Fieldwork**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EDCI790. Credit only granted for: EDCI791 or TLPL791. Formerly: EDCI791.

Examines the theoretical and epistemological moorings of different types of qualitative research. Students apply selected field research methods to problems of professional practice in schools and communities while considering central issues and dilemmas that arise while engaging in fieldwork.

0101	Jennifer Turner	Seats (Total: 20)
	W 4:35pm - 7:20pm	EDU 2212

TLPL798 **Special Problems in Education**

(Perm req)

Credits: 1-6 Grading Method: Regular, Audit

Exploration of current problems in teaching, learning, policy and leadership. Available only to master's or doctoral candidates under the direction of their advisors.

Contact department for information to register for this course.

TLPL799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

TLPL888 **Apprenticeship in Education**

(Perm req)

Credits: 1-8 Grading Method: Regular, Audit

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate-seeking graduate students.

0101	Dennis Herschbach Contact instructor or department for details.	Seats (Total: 10)
0201	Pam Splaine Contact instructor or department for details.	Seats (Total: 10)
0301	Robert Croninger Contact instructor or department for details.	Seats (Total: 5)
2501	Claudia Galindo Contact instructor or department for details.	Seats (Total: 5)
4401	John O'Flahavan Contact instructor or department for details.	Seats (Total: 5)
7067	Diane Ketelhut Contact instructor or department for details.	Seats (Total: 5)
7068	David Blazar Contact instructor or department for details.	Seats (Total: 5)
7069	David Weintrop Contact instructor or department for details.	Seats (Total: 5)

TLPL889 **Internship in Education**

(Perm req)

Credits: 3-8 Grading Method: Regular, Audit

Internship experiences at a professional level of competence in a particular role with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students advanced to candidacy for doctoral degree.

Contact department for information to register for this course.

TLPL898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

TLPL899 **Doctoral Dissertation Research**

(Perm req)

Credits: 1-8 Grading Method: Regular, Sat-Fail

Registration required to the extent of 6-9 hours for an Ed.D. Project and 12-18 hours for a Ph.D. Dissertation.

Contact department for information to register for this course.

TLTC Teaching and Learning Transformation Center Fall 2018

TLTC222 **Academic Technologies**

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Permission of TLTC required - enrollment restriction. Formerly: AGNR270, ARHU299T, BSOS288V.

Teaches students the instructional technology skills and strategies needed to support faculty teaching in technology-rich physical environments like the university's TERP classrooms as well as virtual environments such as ELMS-Canvas.

0101	Deborah Mateik	Seats (Total: 30)
	F 10:00am - 12:30pm	ESJ 2309

TLTC333 **Fundamentals of Academic Peer Mentoring**

(Perm req)

Credits: 1 Grading Method: Regular

Restriction: Permission of TLTC required - enrollment restriction.

How should scientific research influence the way we study and advance the academic performance of others? Learn about the scholarship of teaching and learning and develop the applied skills to support active learning as an academic peer mentor. Whether or not you ultimately pursue a career as an educator, the more effectively you can coach and support the performance of other people, and the more successful you will be. Guided online and face-to-face participation will culminate in a portfolio of your teaching activities and professional development.

Click here for more course information.

0101	Alexis Williams	Seats (Total: 120)
	Class time/details on ELMs Contact instructor or department for details.	ONLINE

TLTC399 **Independent Study in Academic Peer Mentoring**

(Perm req)

Credits: 1-3 Grading Method: Regular

Earn academic credit for the time spent supporting a course in TLTC's Academic Peer Mentoring Program (AMP).

Prerequisite: Must have completed or be concurrently enrolled in TLTC333. Restriction: Permission of TLTC required - enrollment restriction. Repeatable to 6 credits. Earn academic credit for the time spent supporting a course in TLTC's Academic Peer Mentoring Program (AMP).

Contact department for information to register for this course.

TLTC798 **University Teaching and Learning**

(Perm req)

Credits: 1-2 Grading Method: Regular

Special topic courses directed at experienced graduate teaching assistants who are interested in university teaching and learning issues. Can be used by students for participation in the Universtiy Teaching and Learning Program.

Special topics course directed at experienced graduate teaching assistants who are interested in university teaching and learning issues. Can be used by students for participation in the University Teaching and Learning Program. Click here for more course information: tltc.umd.edu/798

0101	Marissa Stewart	Seats (Total: 20)
	Tu 2:00pm - 4:00pm	ESJ 1103

TOXI Toxicology Fall 2018

TOXI609 **Methods in Toxicology**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Provides the opportunity for graduate students to become familiar with laboratory methods used by the staff to study the effect of toxins and environmental pollutants on living systems. Permission and credit arranged individually.

0101	Judd Nelson	Seats (Total: 5)
	Contact instructor or department for details.	

UMEI Maryland English Institute Fall 2018

UMEI001 **English as a Foreign Language: Beginning**

(Perm req)

Credits: 12 Grading Method: Sat-Fail

Restriction: Permission of EDUC-Dean-Maryland English Institute department.

Intensive course for the non-native speaker of English who has little or no previous knowledge of English. Focus on the rapid acquisition of the basic features of English grammar and pronunciation and on speaking and understanding American English; reading and writing appropriate to the level will be included. Special fee required for this course. This course does not carry credit towards any degree at the University and does not count in the retention plan.

0101	Caroline Thompson, Caralyn Bushey	Seats (Total: 20)
	MTuWThF 9:00am - 11:50am	COL 3109
	MTuWThF 1:00pm - 2:50pm	COL 3109

UMEI002 **English as a Foreign Language: Intermediate I**

(Perm req)

Credits: 12 Grading Method: Sat-Fail

Restriction: Permission of EDUC-Dean-Maryland English Institute department.

Intensive course for the non-native speaker of English who has had some previous instruction in English. Emphasis on improving listening and speaking skills, on mastering intermediate grammatical structures, and on expanding vocabulary. Includes practice in reading and writing appropriate to the level. Special fee required for this course. This course does not carry credit towards any degree at the University and does not count in the retention plan.

0101	Caroline Thompson, Caralyn Bushey	Seats (Total: 20)
	MTuWThF 9:00am - 11:50am	COL 3109
	MTuWThF 1:00pm - 2:50pm	COL 3109

UMEI003 **English as a Foreign Language: Intermediate II**

(Perm req)

Credits: 12 Grading Method: Sat-Fail

Restriction: Permission of EDUC-Dean-Maryland English Institute department.

Intensive course for the non-native speaker of English who has mastered the essential structures of English grammar. Emphasis on improving communicative skills for a wide range of linguistic situations, on rapid expansion of vocabulary, and on improving reading comprehension and basic writing skills. Special fee required for this course. This course does not carry credit towards any degree at the University and does not count in the retention plan.

0101	Louise Godley, Caralyn Bushey	Seats (Total: 20)
	MTuWThF 9:00am - 11:50am	SQH 1121
	MTuWThF 1:00pm - 2:50pm	JMZ 1120

UMEI004 **English as a Foreign Language: Intermediate III**

(Perm req)

Credits: 12 Grading Method: Sat-Fail

Restriction: Permission of EDUC-Dean-Maryland English Institute department.

Intensive course for the non-native speaker of English who has a good command of the basic features of spoken and written English. Emphasis on refining speaking and listening skills, on improving reading speed and comprehension of academic texts, and on developing writing skills for academic courses. Special fee required for this course. This course does not carry credit towards any degree at the University and does not count in the retention plan.

0101	Christopher Vizcarrondo, Lori Fredricks MTuWThF 9:00am - 11:50am MTuWThF 1:00pm - 2:50pm	Seats (Total: 20) COL 3110 COL 3110
0301	Eda Aladagli Yoon, Eric Walker MTuWThF 9:00am - 11:50am MTuWThF 1:00pm - 2:50pm	Seats (Total: 20) HBK 0108 HBK 0125
0401	Lori Fredricks, Heather Mehrtens MTuWThF 9:00am - 11:50am MTuWThF 1:00pm - 2:50pm	Seats (Total: 20) HBK 1108 HBK 0108

UMEI005 **Advanced English as a Foreign Language**

Credits: 6 Grading Method: Sat-Fail, Audit

Semi-intensive course for the nearly proficient non-native speaker of English needing additional language instruction prior to undertaking full-time academic study. Speaking and listening skills; improvement of reading speed and comprehension; and development of writing skills. Special fee required for this course. This course does not carry credit towards any degree at the University and does not count in the retention plan.

0101	Dee Broughton MTuThF 9:00am - 10:50am *This section is restricted to Graduate Students.*	Seats (Total: 15) ATL 2352
0201	Melanie Baker MF 1:00pm - 2:50pm TuTh 1:00pm - 2:50pm *This section is restricted to Undergraduate Students.*	Seats (Total: 15) KEY 0121 SQH 1123

0301	Dee Broughton MTuThF 1:00pm - 2:50pm *This section is restricted to Graduate Students.*	Seats (Total: 15) JMZ 1226
0401	Melanie Baker MTuThF 9:00am - 10:50am *This section is restricted to Undergraduate Students.*	Seats (Total: 15) SQH 1123
0601	Annelies Galletta MTuThF 8:00am - 9:50am *This section is restricted to Undergraduate Students.*	Seats (Total: 15) ARC 1125
0701	Eric Walker MTuThF 9:00am - 10:50am *This section is restricted to Graduate Students.*	Seats (Total: 15) JMZ 2117
0801	Marilena Draganescu MTuThF 9:00am - 10:50am *This section is restricted to Undergraduate Students.*	Seats (Total: 15) ARC 1127
1201	Marilena Draganescu MTuThF 12:00pm - 1:50pm *This section is restricted to Undergraduate Students.*	Seats (Total: 15) ATL 1106

UMEI006 **English Pronunciation**

(Perm req)

Credits: 2 Grading Method: Sat-Fail, Audit

Restriction: Must have graduate standing.

Individualized class for the non-native speaker of English. Diagnosis of individual pronunciation problems. Practice in the correct pronunciation of English sounds and improvement of ability to speak English with proper stress and intonation patterns. Special fee required for this course. This course does not carry credit towards any degree at the University and does not count in the retention plan.

0101	Charles Duquette MW 1:00pm - 2:30pm	Seats (Total: 16) KNI 1105
0201	Charles Duquette TuTh 9:00am - 10:30am	Seats (Total: 16) JMZ 1122

UMEI007 **Advanced Writing for International Students**

Credits: 3 Grading Method: Sat-Fail, Audit

Restriction: Must have graduate standing.

A writing skills course for the non-native speaker of English with a good command of spoken English. This course does not carry credit towards any degree at the University and does not count in the retention plan.

Restriction: Must have graduate standing.

0101	Cornell Brellenthin TuTh 1:00pm - 2:50pm	Seats (Total: 16) KEY 0119
0201	Cornell Brellenthin MW 9:00am - 10:50am	Seats (Total: 16) JMZ 2207

UMEI008 **Advanced Oral Communication Skills**

(Perm req)

Credits: 2 Grading Method: Sat-Fail, Audit

For advanced non-native speakers of English. Practice in speaking skills relevant to the academic situation. Improvement of speaking skills for various classroom activities such as participating in discussions, making appointments with professors, asking for information and presenting oral reports. Special fee required for this course. This course does not carry credit towards any degree at the University and does not count in the retention plan.

Restriction: Must have graduate standing; and permission of EDUC-Dean-Maryland English Institute department.

0101	Susan Gould MW 3:30pm - 5:30pm	Seats (Total: 16) COL 3114
0201	Raymond Smith MW 9:00am - 11:00am	Seats (Total: 16) COL 3112

UNIV University Courses Fall 2018

UNIV099 **Internship Seminar**

(Perm req)

Credits: 0 Grading Method: Sat-Fail

Complements students' supervised work experiences. Open to all majors; all class levels. Involves exploring career options, developing professional work skills, examining the relationship between internship and academic coursework. Course may be repeated.

0101	Maria Bowman, Erica Ely Contact instructor or department for details.	Seats (Total: 90)

UNIV100 **The Student in the University**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: EDCP108O or UNIV100. Formerly: EDCP108O.

Introduces students to University life. In a small classroom setting, students will explore how to successfully bridge the gap between high school and college. Study skills, career decision-making, and student development processes will be explored.

0101	Michelle Udeli **Meets September 3, 2018 - November 16, 2018** Tu 11:00am - 12:20pm *Restricted to first semester students enrolled in UTerp program.*	Seats (Total: 20) HBK 0105
0102	Neil Dhingra **Meets September 3, 2018 - November 16, 2018** M 3:00pm - 4:50pm *Restricted to First Semester students with and interest in pre-law.*	Seats (Total: 20) HBK 0108
0201	TC Lloyd M 10:00am - 11:50am *Restricted to First Semester BSOS Majors.*	Seats (Total: 20) KEY 0126
0202	Lindsey Winter, Christie Cradock W 1:00pm - 2:50pm *Restricted to First Semester BSOS Majors.*	Seats (Total: 20) BPS 1232
0203	TC Lloyd Th 3:00pm - 4:50pm *Restricted to First Semester BSOS Majors.*	Seats (Total: 20) PLS 1115

0204	Danielle Dicello, Alexis Tanenbaum Tu 10:00am - 11:50am *Restricted to First Semester BSOS Majors.*	Seats (Total: 20) TYD 0111
0205	Maya Williams, Bailey Kier W 3:00pm - 4:50pm *Restricted to First Semester BSOS Majors.*	Seats (Total: 20) PLS 1146
0206	Christa Slavin Th 10:00am - 11:50am *Restricted to First Semester BSOS Majors.*	Seats (Total: 20) TYD 0111
0207	Rosalyn Anderson-Howell Tu 3:00pm - 4:50pm *Restricted to First Semester BSOS Majors.*	Seats (Total: 20) PLS 1111
0208	Kimberly Bethke M 3:00pm - 4:50pm *Restricted to First Semester BSOS Majors.*	Seats (Total: 20) KEY 0124
0305	Christopher Lester W 6:00pm - 7:50pm *Restricted to OMSE - College Success Scholars. Class will meet in Room Nonprint Media - Hornbake Library.*	Seats (Total: 20) Location: TBA
0306	Christopher Lester W 6:00pm - 7:50pm *OMSE- College Success Scholars. Class will meet in Room H Nonprint Medi - Hornbake Library.*	Seats (Total: 20) Location: TBA
0307	Christopher Lester W 6:00pm - 7:50pm *OMSE-College Success Scholars. Class will meet in Room H Nonprint Media - Hornbake Library.*	Seats (Total: 20) Location: TBA

0401	Diana Forbus **Meets August 27, 2018 - November 16, 2018** Tu 4:00pm - 5:30pm Tu 6:30pm - 7:30pm *Restricted to students in the Carillon Communities.*	Seats (Total: 25) TWS 1320 ESJ 0202	Discussion
0402	Ana Palla-Kane **Meets August 27, 2018 - November 16, 2018** Tu 4:00pm - 5:30pm Tu 6:30pm - 7:30pm *Restricted to students in the Carillon Communities.*	Seats (Total: 25) ESJ 2309 ESJ 0202	Discussion
0403	Melissa Del Rios **Meets August 27, 2018 - November 16, 2018** Th 4:00pm - 5:30pm Tu 6:30pm - 7:30pm *Restricted to students in the Carillon Communities.*	Seats (Total: 25) JMZ 1122 ESJ 0202	Discussion
0404	Leah Howell **Meets August 27, 2018 - November 16, 2018** Th 4:00pm - 5:30pm Tu 6:30pm - 7:30pm *Restricted to students in the Carillon Communities.*	Seats (Total: 25) ESJ B0320 ESJ 0202	Discussion
0405	Lisa Kiely **Meets August 27, 2018 - November 16, 2018** W 4:00pm - 5:30pm Tu 6:30pm - 7:30pm *Restricted to students in the Carillon Communities.*	Seats (Total: 20) SQH 2120 ESJ 0202	Discussion

0406	Ann Smith **Meets August 27, 2018 - November 16, 2018** M 4:00pm - 5:30pm Tu 6:30pm - 7:30pm *Restricted to students in the Carillon Communities.*	Seats (Total: 20) SQH 1107 ESJ 0202	 Discussion
0407	Maureen Shea **Meets August 27, 2018 - November 16, 2018** M 4:00pm - 5:30pm Tu 6:30pm - 7:30pm *Restricted to students in the Carillon Communities.*	Seats (Total: 20) SQH 2120 ESJ 0202	 Discussion
0408	Jacqueline Kautzer **Meets August 27, 2018 - November 16, 2018** M 4:00pm - 5:30pm Tu 6:30pm - 7:30pm *Restricted to students in the Carillon Communities.*	Seats (Total: 20) CHM 0122 ESJ 0202	 Discussion
0409	Amanda Baker **Meets August 27, 2018 - November 16, 2018** M 4:00pm - 5:30pm Tu 6:30pm - 7:30pm *Restricted to students in the Carillon Communities.*	Seats (Total: 20) CHM 0127 ESJ 0202	 Discussion
0410	Jordan Adams **Meets August 27, 2018 - November 16, 2018** M 4:00pm - 5:30pm Tu 6:30pm - 7:30pm *Restricted to students in the Carillon Communities.*	Seats (Total: 20) CHM 0128 ESJ 0202	 Discussion

0411	Brooke Smith **Meets August 27, 2018 - November 16, 2018** M 4:00pm - 5:30pm Tu 6:30pm - 7:30pm *Restricted to students in the Carillon Communities.*	Seats (Total: 20) ESJ 1309 ESJ 0202	 Discussion
0412	Dawn Simounet **Meets August 27, 2018 - November 16, 2018** W 4:00pm - 5:30pm Tu 6:30pm - 7:30pm *Restricted to students in the Carillon Communities.*	Seats (Total: 20) ESJ 1309 ESJ 0202	 Discussion
0413	Lori Praniewicz **Meets August 27, 2018 - November 16, 2018** Th 4:00pm - 5:30pm Tu 6:30pm - 7:30pm *Restricted to students in the Carillon Communities.*	Seats (Total: 20) JMZ 0125 ESJ 0202	 Discussion
0414	Emily Foley **Meets August 27, 2018 - November 16, 2018** Th 4:00pm - 5:30pm Tu 6:30pm - 7:30pm *Restricted to students in the Carillon Communities.*	Seats (Total: 20) JMZ 0205 ESJ 0202	 Discussion
0415	Erica Estrada-Liou **Meets August 27, 2018 - November 16, 2018** Th 4:00pm - 5:30pm Tu 6:30pm - 7:30pm *Restricted to students in the Carillon Communities.*	Seats (Total: 20) JMZ 0103 ESJ 0202	 Discussion
0501	Janis Cornell-DeMoss W 2:00pm - 3:50pm *Restricted to students in the College of Education.*	Seats (Total: 20) EDU 0220	

0502	Jessica Chew Th 1:00pm - 2:50pm *Restricted to students in the College of Education.*	Seats (Total: 20) EDU 0220
0604	Shannon Bate Th 3:00pm - 4:50pm *Restricted to engineering incoming freshmen.*	Seats (Total: 20) EGR 1102
0605	Shannon Hayes Contact instructor or department for details. *Restricted to engineering transfer students.*	Seats (Total: 20)
0801	Thomas Steen **Meets September 3, 2018 - November 16, 2018** M 2:00pm - 3:50pm *Restricted to First Semester Letters and Sciences students.*	Seats (Total: 20) PLS 1164
0802	Anita Weisburger **Meets September 3, 2018 - November 16, 2018** Tu 2:00pm - 3:50pm *Restricted to First Semester Letters and Sciences students.*	Seats (Total: 20) ESJ B0320
0804	Gregory Shaffer **Meets September 3, 2018 - November 16, 2018** Th 3:30pm - 5:30pm *Restricted to First Semester Letters and Sciences students interested in Pre-law.*	Seats (Total: 20) PLS 1117
0806	Hana Zewdie **Meets September 3, 2018 - November 16, 2018** W 3:30pm - 5:20pm *Restricted to First Semester Letters and Sciences students.*	Seats (Total: 20) LEF 1221

0807	Sarah Wilson **Meets September 3, 2018 - November 16, 2018** Tu 11:00am - 12:50pm *For first semester Letters and Sciences students who are interested in STEM (science, technology, mathematics, engineering) majors or careers. Part of the STEM Exploration Series.*	Seats (Total: 20) ASY 3221
0808	Yenti Sunarto **Meets September 3, 2018 - November 16, 2018** Tu 2:00pm - 3:50pm *For first semester Letters and Sciences students who are interested in STEM (science, technology, mathematics, engineering) majors or careers. Part of the STEM Exploration Series.*	Seats (Total: 20) PLS 1158
0815	Arman Liwanag, Amanda Lefky **Meets September 3, 2018 - November 16, 2018** W 9:00am - 10:50am *Restricted to First Semester Letters and Sciences students.*	Seats (Total: 20) WDS 0104
0820	Cameron Busacca **Meets September 3, 2018 - November 16, 2018** Th 12:30pm - 2:20pm *For first semester Letters and Sciences students who are interested in STEM (science, technology, mathematics, engineering) majors or careers. Part of the STEM Exploration Series.*	Seats (Total: 20) PLS 1113
0822	Suzanne Ashour-Bailey **Meets September 3, 2018 - November 16, 2018** Th 9:30am - 11:20am *For first semester Letters and Sciences students who are interested in STEM (science, technology, mathematics, engineering) majors or careers. Part of the STEM Exploration Series.*	Seats (Total: 20) ASY 3221

0825	Jonathan Malone **Meets September 3, 2018 - November 16, 2018** M 11:00am - 12:50pm *Restricted to First SemesterInternational students in Letters and Sciences students.*	Seats (Total: 20) PLS 1164
0826	Matthew Sinclair **Meets September 3, 2018 - November 16, 2018** M 3:30pm - 5:20pm *Restricted to First Semester Letters and Sciences students.*	Seats (Total: 20) JMZ 2207
0841	Joanie Garcia **Meets September 3, 2018 - November 16, 2018** Tu 3:30pm - 5:20pm *Restricted to First Semester Letters and Sciences students.*	Seats (Total: 20) ATL 0201
0850	Devyn Sturdavant **Meets September 3, 2018 - November 16, 2018** W 1:00pm - 2:50pm *For first semester Letters and Sciences students interested in business. Part of the Business Exploration Series.*	Seats (Total: 20) PLS 1164
0851	Lisa Scheeler **Meets September 3, 2018 - November 16, 2018** M 1:00pm - 2:50pm *For first semester Letters and Sciences students interested in business. Part of the Business Exploration Series.*	Seats (Total: 20) LEF 1220
0852	Ruth Morris **Meets September 3, 2018 - November 16, 2018** W 3:00pm - 4:50pm *For first semester Letters and Sciences students interested in business. Part of the Business Exploration Series.*	Seats (Total: 20) SKN 1112

0854	Marchelle Payne-Gassaway **Meets September 3, 2018 - November 16, 2018** M 2:00pm - 3:50pm *For first semester Letters and Sciences students who are interested in STEM (Science, Technology, Mathematics, Engineering) majors or careers. Part of the STEM Exploration Series.*	Seats (Total: 20) PLS 1115
0857	Steve Leonard **Meets September 3, 2018 - November 16, 2018** W 1:00pm - 2:50pm *Restricted to First Semester Letters and Sciences students.*	Seats (Total: 20) EDU 3233
0901	Thomas Gleason M 2:00pm - 3:50pm *Restricted to Physics majors.*	Seats (Total: 20) HBK 1108
0902	Kayla Cullum M 3:00pm - 4:50pm *Restricted to BioFire students.*	Seats (Total: 20) WDS 1131
0903	Jennie Gouker Tu 2:00pm - 3:50pm *Restricted to BSCI-CHEM-BCHM majors.*	Seats (Total: 20) PLS 1168
0904	Gene Ferrick Th 10:00am - 11:50am *Restricted to BSCI-CHEM-BCHM majors.*	Seats (Total: 20) BPS 1228
0905	Justin Nero Tu 11:00am - 12:50pm *Restricted to BSCI-CHEM-BCHM majors.*	Seats (Total: 20) JMZ 1124
0906	Marsha Guenzler-Stevens Tu 1:00pm - 2:50pm *Restricted to BSCI-CHEM-BCHM majors.*	Seats (Total: 20) JMZ 1124

0907	Eden Garosi Tu 1:00pm - 2:50pm *Restricted to BSCI-CHEM-BCHM majors.*	Seats (Total: 20) PLS 1113
0908	Logan Anbinder Th 12:00pm - 1:50pm *Restricted to BSCI-CHEM-BCHM majors.*	Seats (Total: 20) HBK 0105
0909	Marina Sanchez W 10:00am - 11:50am *Restricted to BSCI-BCHM-CHEM majors.*	Seats (Total: 20) TLF 1101
0910	Amy Alexander M 2:00pm - 3:50pm *Restricted to CMNS majors.*	Seats (Total: 20) SYM 0209
0912	Gerry Strumpf W 12:00pm - 1:50pm *Restricted to BSCI-CHEM-BCHM majors.*	Seats (Total: 15) COL 1102
0915	Kasey Ezzat M 1:00pm - 2:50pm *Restricted to BSCI-CHEM-BCHM majors.*	Seats (Total: 20) PLS 1111
0916	Alicia Thomas Tu 10:00am - 11:50am *Restricted to BSCI-CHEM-BCHM majors.*	Seats (Total: 20) ATL 0201
0918	Hang Le W 2:00pm - 3:50pm *Restricted to BSCI-CHEM-BCHM majors.*	Seats (Total: 20) PLS 1158
0919	Courtney Butler Th 3:00pm - 4:50pm *Restricted to BSCI-CHEM-BCHM majors.*	Seats (Total: 20) PLS 1168
0920	Stephanie Bent F 1:00pm - 2:50pm *Restricted to BSCI-CHEM-BCHM majors.*	Seats (Total: 20) CCC 1200

0925	Alyssa Neuner W 1:00pm - 2:50pm *Restricted to BSCI-CHEM-BCHM majors.*	Seats (Total: 20) PHY 1219
0926	Lital Ehrlich M 2:00pm - 3:50pm *Restricted to BioFIRE students.*	Seats (Total: 20) JMZ 0118
0927	Stacy Woycheck Tu 2:00pm - 3:50pm *Restricted for BioFire students.*	Seats (Total: 20) JMZ 2125
1101	Michael Brick Tu 9:30am - 10:45am *Restricted to ARCH majors only; cannot be dropped without permission from college.*	Seats (Total: 18) ARC 1117
1102	Michael Brick Th 9:30am - 10:45am *Restricted to ARCH majors only; cannot be dropped without permission from college.*	Seats (Total: 18) ARC 1117
1103	Michael Brick Tu 12:30pm - 1:45pm *Restricted to ARCH majors only; cannot be dropped without permission from college.*	Seats (Total: 18) ARC 1117
1104	Michael Brick Th 12:30pm - 1:45pm *Restricted to ARCH majors only; cannot be dropped without permission from college.*	Seats (Total: 18) ARC 1117
1201	Amy Lintner F 11:00am - 12:15pm *Restricted to SPHL majors only; cannot be dropped without permission from college.*	Seats (Total: 20) SPH 0305
1202	Jaime Oliver Tu 9:30am - 10:45am *Restricted to SPHL majors only; cannot be dropped without permission from college.*	Seats (Total: 20) SPH 0301
1203	Renee Stokes Th 9:30am - 10:45am *Restricted to SPHL majors only; cannot be dropped without permission from college.*	Seats (Total: 20) SPH 0301

1204	Felicia Low Th 9:30am - 10:45am	Seats (Total: 20) AJC 2119
	Restricted to SPHL majors only; cannot be dropped without permission from college.	
1205	Matthew Wootten Th 2:00pm - 3:15pm	Seats (Total: 20) JMZ 1103
	Restricted to SPHL majors only; cannot be dropped without permission from college.	
1206	Erin Caporellie W 11:00am - 12:15pm	Seats (Total: 20) PLS 1176
	Restricted to SPHL majors only; cannot be dropped without permission from college.	
1207	Polly Sebastian Schurer Tu 9:30am - 10:45am	Seats (Total: 20) SPH 0307
	Restricted to SPHL majors only; cannot be dropped without permission from college.	
1501	Hollin Van Buren Th 2:00pm - 3:50pm	Seats (Total: 19) ARC 1123
	Restricted to College of Agriculture and Natural Resources, First Year or Transfer Students.	
1502	Heather Buchanan W 2:00pm - 3:50pm	Seats (Total: 15) PLS 1119
	Restricted to College of Agriculture and Natural Resources, First Year or Transfer Students.	
1503	Evelyn Cooper M 2:00pm - 3:50pm	Seats (Total: 15) PLS 1162
	Restricted to College of Agriculture and Natural Resources, First Year or Transfer Students.	
FC01	Amanda Bachert M 7:30pm - 8:45pm	Seats (Total: 20) JMZ 0118
	Restricted to students in Freshmen Connection.	
FC02	Victoria Shay M 4:30pm - 5:45pm	Seats (Total: 20) PLS 1111
	Restricted to students in Freshmen Connection.	

FC03	Kristin LaRiviere F 10:00am - 11:15am *Restricted to students in Freshmen Connection.*	Seats (Total: 20) TWS 1313
FC04	Steven Young F 1:00pm - 2:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) HBK 0103
FC05	Lenaya Stewart W 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) PLS 1111
FC06	Iceney Williams W 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) JMZ 1124
FC07	Briana O'Neal Th 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) PLS 1115
FC08	Devyn Sturdavant M 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) JMZ 1120
FC09	TC Lloyd F 11:30am - 12:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) PLS 1111
FC10	Lori Kader F 11:30am - 12:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) HBK 0105
FC11	Marivel Soria F 1:00pm - 2:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) PLS 1146
FC12	Rosalyn Anderson-Howell M 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) BPS 1232

FC13	Jaime Oliver M 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) KEY 0121
FC14	Denise McHugh Th 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) EDU 3315
FC15	Ciarra Joyner F 11:30am - 12:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) TYD 2106
FC16	Raymond Nardella F 10:00am - 11:15am *Restricted to students in Freshmen Connection.*	Seats (Total: 20) EGR 3102
FC17	Lori Kader Tu 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) PLS 1115
FC18	Steven Young M 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) ASY 3215
FC19	Valerie Goubeau F 1:00pm - 2:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) PLS 1111
FC20	Erik Hanson Tu 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) JMZ 1124
FC21	Siemy Khan Th 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) ITV 1111
FC22	Eric Johnson Th 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) PLS 1111

FC23	Steven Young Th 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) PLS 1115
FC24	Courtney Holder Tu 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) JMZ 1117
FC25	Sharon Vanwright F 11:30am - 12:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) PLS 1119
FC26	Alison Barlow Tu 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) HBK 0105
FC27	Cait Belney Th 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) JMZ 0120
FC28	Veronica Perrigan F 11:30am - 12:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) PLS 1117
FC29	Glenn Smith Tu 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) JMZ 1120
FC30	Jamie Fry Tu 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) PLS 1115
FC31	Ebony Fullwood F 11:30am - 12:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) VMH 1311
FC32	Carli Weldon, Raymond Nardella Th 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) JMZ 2120

FC33	Randall Phyall Tu 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) ASY 3221
FC34	Matthew Sinclair Tu 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) KEY 0121
FC35	Katie O'Mailey F 11:30am - 12:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) ATL 2428
FC36	Victoria Shay M 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) PLS 1111
FC37	Lindsey Winter Th 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) JMZ 1117
FC38	Amy Merritt Tu 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) HBK 0103
FC39	Traci Alston F 11:30am - 12:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) SYM 0215
FC40	Michael Brick W 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) KNI 1103
FC41	Jamie Fry Tu 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) PLS 1115
FC42	J Darius Greene Tu 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) JMZ 3203

FC43	Elizabeth Hinson F 1:00pm - 2:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) ASY 3211
FC44	Melanie Ashton Tu 3:00pm - 4:15pm *Restricted to students in Freshman Connection.*	Seats (Total: 20) EDU 3236
FC45	Gregory Shaffer W 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) WDS 0104
FC46	James Bond Th 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) CHM 1224
FC47	Thomas Steen Tu 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) JMZ 0205
FC48	Katlin Gray F 1:00pm - 2:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) EDU 1315
FC49	Fulvio Cativo F 1:00pm - 2:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) PLS 1117
FC50	Mary Warneka Tu 3:00pm - 4:15pm	Seats (Total: 20) TLF 1103
FC51	Zabrina Anzyl Tu 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) JMZ 0122
FC52	Tracy Kennedy F 10:00am - 11:15am *Restricted to students in Freshmen Connection*	Seats (Total: 20) CSI 3118

FC53	Candace Daniels M 3:00pm - 4:15pm	Seats (Total: 20) JMZ 0122
FC54	Joel Solorzano F 1:00pm - 2:15pm *Restricted to students in Freshmen Connection*	Seats (Total: 20) SQH 1121
FC55	Lenaya Stewart Th 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) JMZ 1122
FC56	Andrew Muir W 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) HBK 0123
FC57	Cameron Agerston W 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) JMZ 2123
FC58	Joseph Harden M 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) KEY 0116
FC59	Jessica Senasack M 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) HBK 1112
FC60	Zabrina Anzyl Tu 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) SPH 0305
FC61	Ashleigh Brown Th 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) ASY 3203
FC62	Erica Smith Tu 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) ANS 0412

UNIV100V **The Student in the University**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: EDCP108O or UNIV100. Formerly: EDCP108O.

Introduces students to University life. In a small classroom setting, students will explore how to successfully bridge the gap between high school and college. Study skills, career decision-making, and student development processes will be explored.

0101	Tasha Vanterpool M 3:30pm - 5:30pm	Seats (Total: 25) Location: TBA
	This section is reserved for VETERANS ONLY. DD214 required for verification.	

UNIV106 **The Transfer Student in the University**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be a first-semester Letters and Sciences transfer student. Credit only granted for: UNIV106 or EDCP108G.

For transfer students in Letters and Sciences. This course is designed to assist students in making a successful transition to the University of Maryland (UMD) and to serve as an extended orientation to campus living and learning.

0101	Melissa Hyre Tu 11:00am - 12:15pm	Seats (Total: 20) WDS 0104
0201	Jeffrey Kodis Th 2:00pm - 3:15pm	Seats (Total: 20) HBK 0123
0301	Noah Jacobs W 3:00pm - 4:15pm	Seats (Total: 20) BPS 1236

UNIV108 **Business Exploration Series Colloquium**

Credits: 1 Grading Method: Regular

For students interested in pursuing a business career. Students learn the fundamentals of career development and what the internship/job search process entails.

FC01	Melissa Hyre	Seats (Total: 22)	
	Tu 6:00pm - 6:50pm Th 6:00pm - 6:50pm	ASY 3219 ASY 2203	Discussion
	Restricted to students in Freshmen Connection.		
FC02	Iceney Williams	Seats (Total: 22)	
	Tu 6:00pm - 6:50pm Th 6:00pm - 6:50pm	ASY 3215 ASY 2203	Discussion
	Restricted to students in Freshmen Connection.		
FC03	Ruth Morris	Seats (Total: 22)	
	Tu 6:00pm - 6:50pm Th 6:00pm - 6:50pm	TWS 1313 ASY 2203	Discussion
	Restricted to students in Freshmen Connection.		
FC04	Lisa Scheeler	Seats (Total: 22)	
	Tu 6:00pm - 6:50pm Th 6:00pm - 6:50pm	KNI 1105 ASY 2203	Discussion
	Restricted to students in Freshmen Connection.		
FC05	Jeffrey Kodis	Seats (Total: 22)	
	Tu 6:00pm - 6:50pm Th 6:00pm - 6:50pm	TWS 1320 ASY 2203	Discussion
	Restricted to students in Freshmen Connection.		

UNIV269 **Connecting Across Cultures**

Credits: 1 | Grading Method: Regular, Pass-Fail, Audit | General Education: DVCC

An examination of culture to guide study abroad students through the stages of cross cultural adjustment and to promote cultural competency by providing the motivation, knowledge and skills necessary to work with diverse individuals and teams.

Contact department for information to register for this course.

UNIV269A **Connecting Across Cultures; Cultural Realities of Spain**

Credits: 1 | Grading Method: Regular, Pass-Fail, Audit | General Education: DVCC

An examination of culture to guide study abroad students through the stages of cross cultural adjustment and to promote cultural competency by providing the motivation, knowledge and skills necessary to work with diverse individuals and teams.

Contact department for information to register for this course.

UNIV325 **Beyond the Classroom Seminar I: Civic Engagement and Social Change in a Global Context**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

Restriction: Must be in the Beyond the Classroom (BTC) living and learning program.

Develops and applies the concept of civic engagement and strategies for enhancing civic engagement and advancing social justice in different contexts (global to local; multi-cultural). Develop students' leadership capacities and skills for fostering civil discourse and effective professional practices in the nonprofit and civil society sector. Students identify the key civic values, attitudes and expectations that motivate them personally as well as others to engage in civic action and leadership. Students prepare professional portfolios in preparation of a semester-long internship.

Restricted to students in Beyond the Classroom (BTC) living and learning program. Development of effective written and oral communication skills for a variety of constituents.

0101	James Riker Tu 3:30pm - 6:00pm	Seats (Total: 40) SCC 1102
0201	James Riker W 3:30pm - 6:00pm	Seats (Total: 40) SCC 1102

UNIV326 **Beyond the Classroom Seminar II**

Credits: 1 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: UNIV325. Restriction: Must be in the Beyond the Classroom (BTC) living and learning program.

Seminar for students in internships and service-learning experiences as context for applying communication skills and knowledge of civic engagement leadership skills first introduced in UNIV325. Must be taken concurrently with experiential learning practicum.

0201	James Riker Class time/details on ELMs	Seats (Total: 15) ONLINE

UNIV378 **Beyond the Classroom Experiential Learning; Beyond Classroom Experiential Learning**

Credits: 1-3 | Grading Method: Regular, Pass-Fail, Audit

This is the internship component of the Beyond the Classroom program in which students hold internships at organizations such as governmental units and non-profit agencies.

0101	James Riker	Seats (Total: 15)
	Contact instructor or department for details.	

UNIV389A **Special Topics in Undergraduate Studies; Army ROTC Independent Study Projects**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Courses will focus on interdisciplinary topics and will be planned in cooperation with Undergraduate Studies.

0101	John Andrews, Heather Hunkus	Seats (Total: 20)
	Contact instructor or department for details.	
0102	John Andrews, Alama Rush	Seats (Total: 20)
	Contact instructor or department for details.	
0103	John Andrews, Larry Rentz	Seats (Total: 20)
	Contact instructor or department for details.	

UNIV389J **Special Topics in Undergraduate Studies; Federal Independent Study Projects**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Courses will focus on interdisciplinary topics and will be planned in cooperation with Undergraduate Studies.

Prerequisite: Permission of instructor.

0101	Joan Burton	Seats (Total: 25)
	Contact instructor or department for details.	
0201	Joan Burton	Seats (Total: 25)
	Contact instructor or department for details.	

UNIV389L **Special Topics in Undergraduate Studies; BTC Seminar III, Civic Leadership for Community Engagement**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Courses will focus on interdisciplinary topics and will be planned in cooperation with Undergraduate Studies.

Prerequisite: UNIV325 and UNIV326.

0101	James Riker	Seats (Total: 20)
	Contact instructor or department for details.	

UNIV399 **Experiential Learning in Undergraduate Studies**

Credits: 1-3 Grading Method: Regular

Experiential learning offered in conjunction with certain designated Office of Undergraduate Studies programs.

0201	Joan Burton	Seats (Total: 10)
	Contact instructor or department for details.	

UNIV399C **Experiential Learning in Undergraduate Studies; Ensuring a World Fit for Children? Rethinking Our Civic Responsibilities**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Experiential learning offered in conjunction with certain designated Office of Undergraduate Studies programs.

Students will explore the status of children (i.e., standards of living) and the key challenges (i.e., education, health, homelessness, poverty, war and conflict) they face in around the world the 21st Century. What prospects do children born today face and what is required to ensure a world fit for children? What is the civic responsibility of citizens, government and society to address these challenges and improve the opportunities for all children? How can the international community strengthen its commitment to children's welfare, well-being, and life opportunities around the world? The seminar will highlight promising strategies for improving children's well-being in the United States, Europe, the Middle East and the developing world. The seminar will draw directly on the perspectives of leading nonprofit and civil society leaders through formal presentations and documentary films to identify possible policies and practices that will ensure a world fit for children.

0101	James Riker	Seats (Total: 40)
	M 7:00pm - 9:00pm	SCC 1102

URSP Urban Studies and Planning Fall 2018

URSP250 **The Sustainable City: Exploring Opportunities and Challanges**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: IE General Education: DSSP, SCIS

An exploration, through an interdisciplinary approach, of a number of issues related to making cities more sustainable in terms of environmental protection, economic opportunity, and social justice. The course assist students to develop skills in critical analysis and systems thinking and to use those skills in analyzing sustainability related problems and potential solutions, and to expand students' understanding of the political implications of crafting and moving towards a sustainable urban future.

0101	Marccus Hendricks Tu 9:30am - 10:45am Th 9:30am - 10:45am	Seats (Total: 32) CCC 1100 CCC 1100	 Discussion
0102	Marccus Hendricks Tu 9:30am - 10:45am Th 9:30am - 10:45am	Seats (Total: 32) CCC 1100 CCC 1100	 Discussion
0103	Marccus Hendricks Tu 9:30am - 10:45am Th 9:30am - 10:45am	Seats (Total: 32) CCC 1100 CCC 1100	 Discussion

URSP399I **Independent Study**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Directed research and study of selected aspects of urban affairs.

Contact department for information to register for this course.

URSP601 **Research Methods**

Credits: 3 Grading Method: Regular, Audit

Recommended: An undergraduate-level statistics course; and familiarity with Microsoft Excel. Formerly: URBS601.

Use of measurement, statistics, quantitative analysis, and micro-computers in urban studies and planning.

0101	Casey Dawkins W 7:00pm - 9:40pm	Seats (Total: 15) ARC 1115

URSP603 **Land Use Planning: Concepts and Techniques**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: URSP603, URBS680, or URBS603. Formerly: URBS603.

Land use concepts and definitions: legal context for planning; markets and planning; planning for housing; community services, employment, utilities, and transportation; zoning; subdivision regulations; growth management; plan implementation.

0101	Marccus Hendricks	Seats (Total: 20)
	M 7:00pm - 9:40pm	ARC 1105

URSP605 **Planning History and Theory**

Credits: 3 Grading Method: Regular, Audit

Examination of key, selected major events and issues in U.S. planning history and the development of the [planning profession; exploration of major themes in planning theory and practical applications of them; and analysis of the relationship of history and theory.

0101	Ariel Bierbaum	Seats (Total: 25)
	Tu 4:00pm - 6:40pm	ARC 1105

URSP606 **Planning Economics**

Credits: 3 Grading Method: Regular

Restriction: Must not have completed URSP630. Credit only granted for: URSP606, URBS606, or URBS630. Formerly: URBS606.

Resource allocation in a market economy, the nature of market failures, and the justifications for public sector intervention. The limits and possibilities for planning in a market economy.

0101	Chengri Ding	Seats (Total: 15)
	M 4:00pm - 6:30pm	ARC 1119

URSP688L **Recent Developments in Urban Studies; Planning Technology**

Credits: 3 Grading Method: Regular, Audit

Examination of selected current aspects of urban affairs and planning, including, for example, in the United States or neighborhood preservation in Russia. Location of course may be off-campus.

An introduction to technologies that are vital for contemporary planners. With a strong emphasis on practical skills, the course will provide students with fundamental concepts, hands-on experience and real-world applications of such urban planning technologies as web publishing and tools, search engine optimization, blogs, Twitter and social networking, Geographic Information Systems (GIS), data visualization, 3D modeling, mash-ups, digital design tools, web surveys, photo/video sharing (web/video conferencing), and crowdsourcing

0101	Binbin Peng, Zhenpeng Zou	Seats (Total: 20)
	Th 4:00pm - 6:40pm	ARC 0111

URSP688N **Recent Developments in Urban Studies; Urban Transportation Planning and Policy**

Credits: 3 Grading Method: Regular, Audit

Examination of selected current aspects of urban affairs and planning, including, for example, in the United States or neighborhood preservation in Russia. Location of course may be off-campus.

0101	Hiroyuki Iseki	Seats (Total: 15)
	W 4:00pm - 6:40pm	ARC 1115

URSP688X **Recent Developments in Urban Studies; Planning, Policy, and Public Education**

Credits: 3 Grading Method: Regular, Audit

Examination of selected current aspects of urban affairs and planning, including, for example, in the United States or neighborhood preservation in Russia. Location of course may be off-campus.

This course explores the historical and contemporary interrelationships among metropolitan policy, planning practice, and public education. The course engages interdisciplinary scholarship, case studies, and guest speakers. It examines issues such as: school, neighborhood, and metropolitan segregation; schools as centers of community; school siting and land use; school facility planning and management; school transportation; education reform and school choice; school closures.

0101	Ariel Bierbaum	Seats (Total: 15)
	W 7:00pm - 9:40pm	ARC 1119

URSP688Z **Recent Developments in Urban Studies; Planning & Design in the Multicultural Metropolis**

Credits: 3 Grading Method: Regular, Audit

Examination of selected current aspects of urban affairs and planning, including, for example, in the United States or neighborhood preservation in Russia. Location of course may be off-campus.

0101	Willow Lung Amam W 4:00pm - 6:40pm	Seats (Total: 20) ARC 1119

URSP708 **Community Planning Studio**

Credits: 6 Grading Method: Regular, Audit

The Community Planning Studio is a "capstone" course intended to provid students with an opportunity to apply their knowledge and skills to analyze current, pressing planning issues, in a selected community and to produce a report containing recommendations for addressing those issues. In essence, students act as a consulting team for a community client.

0101	Katrina Durbak, Robert Duffy Tu 7:00pm - 9:40pm Th 7:00pm - 9:40pm	Seats (Total: 12) ARC 1119 ARC 1119

URSP709 **Field Instruction**

Credits: 3 Grading Method: Regular, Audit

Students will satisfy a 300-hour internship (20 hours for 15 weeks during the spring, 25 hours a week for 12 weeks during the summer). Suitable internships are approved by the Internship Coordinator or Instructor; they involve a significant amount of planning work (preferably in the student's are of interest) and provide an appropriate on-site supervisor. The Internship Coordinator will assist students in finding a suitable internship, but the ultimate responsibility rests with each student. Whether the internship is paid or not is a matter to be worked out between the student and the organization.

0101	Casey Dawkins Contact instructor or department for details.	Seats (Total: 20)
0102	Ariel Bierbaum Contact instructor or department for details.	Seats (Total: 5)

URSP710 **Research Seminar: Urban Theory and Issues**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: 15 credits in URSP courses. Restriction: Must be in Urban and Regional Planning and Design (Doctoral) program. Formerly: URBS710.

An advanced research seminar for M.A. and M.C.P. students preparing their final research projects.

0101	Instructor: TBA	Seats (Total: 10)
	Contact instructor or department for details.	

URSP788 **Independent Study in Urban Studies and Planning**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Directed research and study of selected aspects of urban affairs.

Contact department for information to register for this course.

URSP798 **Readings in Urban Studies and Planning**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Directed readings in selected aspects of urban affairs and planning.

Contact department for information to register for this course.

URSP799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

URSP804 **Advanced Planning Theory**

Credits: 3 Grading Method: Regular, Audit

Relations between theory and practice in planning. Ways of developing and using knowledge in collective action. Challenges to organizing for planning, finding knowledge useful for planning and balancing social attachments with free inquiry.

0101	Casey Dawkins	Seats (Total: 10)
	Th 1:00pm - 3:40pm	ARC 1119

URSP810 **Contemporary Metropolitan Issues**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in Urban and Regional Planning and Design (Doctoral) program.

Introduces Ph.D. students to current metropolitan issues. Focus is on the historical development of the issue, problem definition, methodological approaches to its study, methodological dilemmas, and the ways that different conclusions are translated into policy. Topics vary from semester to semester but include such topics as the spatial mismatch hpothesis, the impact of urban design and form on travel behavior, the impact of technology on urban form, the justification for historic preservation, and sustainable development.

0101	Gerrit Knaap	Seats (Total: 10)
	M 1:00pm - 3:40pm	ARC 1119

URSP898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Sat-Fail

Selected topics in Urban Studies and Planning. Topics will vary with the instructor.

Contact department for information to register for this course.

URSP899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Sat-Fail

This course is a required course for the Ph.D program in Urban and Regional Planning and Design.

Contact department for information to register for this course.

USLT Latina/o Studies Fall 2018

Please visit http://amst.umd.edu/programs/course/ for more course information.

USLT201 **U.S. Latina/o Studies I: An Historical Overview to the 1960's**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SH, D

Interdisciplinary course focusing on demographics, terminology and social constructs of race, class, ethnicity, indigeneity, gender, and sexuality associated with the historical and political roots of US Latinidades. Examines the formation, evolution an adaptation of US Latina/o communities as critical field of inquiry.

0101	Robert Chester	Seats (Total: 35)
	TuTh 11:00am - 12:15pm	SQH 1105

USLT320 **Afro-Latinx Diasporas**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: USLT319A, USLT320, or AMST328E. Formerly: USLT319A.

Examines the history of the African diaspora and the Afro-Latinx populations in the United States. Explores transnational migrations, comparative slave systems, labor, community formation, gender, sexuality, popular culture, and the changing meanings of blackness and latinidad.

Also offered as AMST328E.

0101	Nancy Mirabal	Seats (Total: 15)
	TuTh 2:00pm - 3:15pm	TWS 0328

USLT369A **Special Topics in Study Abroad III; Thinking in Andalusian: The Antonio Machado Family of Seville**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

USLT498D **US Latina/o Studies: Special Topics; Central Americans and the United States: Culture, Politics, and Community**

Credits: 3 Grading Method: Regular

Specific content to be announced when courses are offered.

Also offered as AMST498C. Credit granted for USLT498D or AMST498C.

0101	Robert Chester	Seats (Total: 25)
	TuTh 2:00pm - 3:15pm	TWS 0134

USLT498N **US Latina/o Studies: Special Topics; Globalization and the Diversifying US**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Specific content to be announced when courses are offered.

Also offered as AMST498W and IMMR419J. Credit granted for USLT498N, AMST498W, or IMMR419J. Prerequisite: At least three credit hours of prior coursework in AMST.

0101	Jacqueline Partida	Seats (Total: 35)
	TuTh 9:30am - 10:45am	SQH 1101

VMSC Veterinary Medical Sciences Fall 2018

VMSC660 **Emerging and Re-emerging Infectious Diseases**

Credits: 3 Grading Method: Regular

The global burden of emerging and re-emerging infectious diseases is growing and prompts the need for effective control of these pathogens. The objective of this course is to provide graduate students with knowledge of pathogenesis and transmission of globally evolving pathogens. Registered students for this course are expected to know fundamentals of infectious diseases. References from the peer reviewed journals will be provided to facilitate understanding of the selected topics. Opening of this course is necessary to help graduate students to stay up-to-date with currently emerging pathogens and their evolution with changes in environment. This course is complementary to other existing microbiology courses (i.e., Viral Pathogenesis) on campus. Lectures focus on an in-depth analysis of a variety of topics in current infectious diseases. The course highlights recently published literatures to evaluate evolving trends in infectious diseases. The covered topics include subjects related with various pathogens and their adaptation strategy to enhance pathogenicity and transmissibility. The lectures will also cover the control and prevention measures of these pathogens.

0101	Shin-Hee Kim	Seats (Total: 20)
	M 10:00am - 12:40pm	GVC 1131

VMSC698 **Seminar in Veterinary Medical Science**

Credits: 1-3 Grading Method: Regular

Presentation and discussion of scientific publications, current topics and new methodologies related to veterinary medical sciences.

Class will meet in 1216 Gudelsky Building.

0101	Shin-Hee Kim	Seats (Total: 20)
	Th 11:00am - 12:00pm	GVC 1216

VMSC699 **Special Problems in Veterinary Medical Sciences**

Credits: 1-4 Grading Method: Regular

Independent study of a specific problem related to veterinary medicine such as a disease outbreak, application of a new diagnostic test or a risk analysis related to animal health. Targeted at veterinary medicine (DVM) students and other graduate students with a background in veterinary medicine.

Contact department for information to register for this course.

VMSC760 **Immunology of Infectious Diseases**

Credits: 3 Grading Method: Regular, Audit

An advanced graduate level course that focuses on the cutting-edge knowledge of immunity and recent research breakthroughs in the interactions between host immune system and infectious pathogen, and vaccine development

0101	Meiqing Shi	Seats (Total: 25)
	TuTh 1:45pm - 3:00pm	PLS 1115

VMSC780 **Parasites of Medical and Veterinary Importance**

(Perm req)

Credits: 2 Grading Method: Regular

Restriction: Permission of instructor.

Provides students with the basic knowledge of parasites as well as research advancement in important parasites of humans and animals. Particular attention will be given to parasite biology, pathogenesis, and host responses to parasitic infection. A selection of parasites of medical and veterinary importance will be specifically covered with emphasis on recent research breakthroughs in the field.

Contact department for information to register for this course.

VMSC799 **Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

VMSC898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

VMSC899 **Dissertation Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

WMST Women's Studies Fall 2018

WMST200 **Introduction to Women's Studies: Women and Society**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SB, D General Education: DSHS, DVUP

An interdisciplinary study of the status, roles, and experiences of women in society. Sources from a variety of fields such as literature, psychology, history, and anthropology, focusing on the writings of women.

0101	Sydney Lewis TuTh 8:00am - 9:15am	Seats (Total: 30) ASY 3207
0301	Dorothy Hagen MWF 2:00pm - 2:50pm	Seats (Total: 25) SQH 2120

WMST250 **Introduction to Women's Studies: Women, Art and Culture**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HA, D | General Education: DSHU, DVUP

An examination of women's creative powers as expressed in selected examples of music, film, art, drama, poetry, fiction, and other literature. Explores women's creativity in relation to families, religion, education, ethnicity, class, sexuality, and within a cultural tradition shaped by women.

0201	Sina Lee TuTh 12:30pm - 1:45pm	Seats (Total: 25) JMZ 0125
0301	Lenora Knowles TuTh 9:30am - 10:45am	Seats (Total: 25) SYM 0215
0401	Jessica Mathiason TuTh 2:00pm - 3:15pm	Seats (Total: 25) SYM 0209
0501	Clara Montague TuTh 11:00am - 12:15pm	Seats (Total: 25) ASY 3203
0701	Amira Lundy-Harris MWF 11:00am - 11:50am	Seats (Total: 25) WDS 0104
0801	Melissa Stevens MWF 12:00pm - 12:50pm	Seats (Total: 25) JMZ 2206
1001	Melissa Stevens MWF 10:00am - 10:50am	Seats (Total: 25) TWS 1320
1301	Jessica Mathiason TuTh 5:00pm - 6:15pm	Seats (Total: 45) KEY 0116
FC01	Michele Prince MW 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 25) KEY 0120

FC02	Clara Montague	Seats (Total: 25)
	MW 3:00pm - 4:15pm	JMZ 1124
	Restricted to students in Freshmen Connection.	

WMST255 **Reading Women Writing**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HL, D | General Education: DSHU, DVUP

Also offered as: ENGL250. Credit only granted for: WMST255 or ENGL250.

Explores literary and cultural expressions by women and their receptions within a range of historical periods and genres. Topics such as what does a woman need in order to write, what role does gender play in the production, consumption, and interpretation of texts, and to what extent do women comprise a distinct literary subculture. Interpretation of texts will be guided by feminist and gender theory, ways of reading that have emerged as important to literary studies over the last four decades.

0201	Emilee Durand	Seats (Total: 30)
	TuTh 12:30pm - 1:45pm	TWS 1107

WMST263 **Introduction to Black Women's Studies**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: WMST298A or AASP298I. Formerly: WMST298A.

Interdisciplinary exploration of Black women, culture and society in the United States. Drawn primarily from the social sciences and history with complementary material from literature and the arts.

Also offered as AASP298I.

0101	Tangere Hoagland	Seats (Total: 30)
	W 6:00pm - 8:30pm	ASY 3211

WMST269G **Special Topics in Study Abroad II; Topics on Gender Studies**

Credits: 1-6 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

WMST269I **Special Topics in Study Abroad II; Social Problems: Women's Issues (In Indian Society)**

Credits: 1-6 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

WMST269W **Special Topics in Study Abroad II; Social Problems: Women's Issues Field Study**

Credits: 1 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

WMST275 **World Literature by Women**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HL, D | General Education: DSHU, DVUP

Also offered as: CMLT275. Credit only granted for: WMST275 or CMLT275.

Comparative study of selected works by women writers of several countries, exploring points of intersection and divergence in women's literary representations.

0201	Tung-An Wei MW 2:00pm - 3:15pm	Seats (Total: 30) TWS 0234
0301	Uchechi Okereke-Beshel TuTh 5:00pm - 6:15pm	Seats (Total: 30) KEY 0125

WMST298D **Women's Bodies in Contention**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HA, D | General Education: DSHS, DVUP, SCIS

0101	Jessica Mathiason TuTh 11:00am - 12:15pm	Seats (Total: 20) PLS 1115

WMST298N **Special Topics in Women's Studies; Racialized Gender and Rebel Media**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

0101	Michele Prince MW 3:00pm - 4:15pm	Seats (Total: 30) ESJ 2309

WMST300 **Feminist Reconceptualizations of Knowledge**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of ARHU-Women's Studies department; and must be in Women's Studies program.

An examination of how the interdisciplinary study of women and gender has generated new questions, challenged traditional methodologies and offered insights on the ways we come to learn, know, and teach. Explores the impact of feminist thinking on various disciplines.

0101	Sina Lee	Seats (Total: 15)
	Tu 3:30pm - 6:00pm	VMH 1107

WMST314 **Black Women in United States History**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Sophomore standing or higher. Also offered as: AASP313. Credit only granted for: AASP313, AASP498W, HIST329E, WMST314, or WMST498N. Formerly: WMST498N.

Black American women's history from slavery to the present. Focused on gaining a fuller understanding of the effect of race, class and gender on the life cycles and multiple roles of Black women as mothers, daughters, wives, workers and social-change agents.

Also offered as AASP313 and HIST329E. Credit granted for AASP313, WMST314 and HIST329E.

0101	Elsa Barkley Brown	Seats (Total: 35)
	M 6:00pm - 8:30pm	KEY 0103

WMST336 **Psychology of Women**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit , D General Education: DSHS

Prerequisite: PSYC100. Also offered as: PSYC336. Credit only granted for: PSYC336 or WMST336.

A study of the biology, life span development, socialization, personality, mental health, and special issues of women.

Restricted to undergraduate PSYC students or WMST students only.

0101	Jennifer Brady	Seats (Total: 110)
	MW 12:00pm - 12:50pm F 12:00pm - 12:50pm	BPS 1250 ONLINE

WMST350 **Feminist Pedagogy**

(Perm req)

Credits: 6

Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of ARHU-Women's Studies department.

General application of feminist methodology to teaching and communication skills, teaching strategies, motivation, classroom dynamics and knowledge of students' development and learning styles.

Contact department for information to register for this course.

WMST360 **Caribbean Women**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

An interdisciplinary analysis of the lives and experiences of women across the Caribbean region, through an examination of their roles in individual, national, social and cultural formations. Special emphasis on contemporary women's issues and organizations.

Also offered as AASP498D. Credit only granted for WMST360 or AASP498D.

0101	Michelle Rowley	Seats (Total: 30)
	TuTh 12:30pm - 1:45pm	TYD 0111

WMST369G **Special Topics in Study Abroad III; Gender and Post Socialist Transformation in Central Europe**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

WMST379A **Topics in Women's Studies; Honors Thesis Writing I**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Thematic exploration of a topic in women's studies.

0101	Ruth Zambrana	Seats (Total: 1)
	Contact instructor or department for details.	

WMST379B **Topics in Women's Studies; Honors Thesis Writing II**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Thematic exploration of a topic in women's studies.

0101	Instructor: TBA Contact instructor or department for details.	Seats (Total: 1)

WMST379F **Topics in Women's Studies; Women and Comedy: History, Theory, Practice**

Credits: 3 Grading Method: Regular

Thematic exploration of a topic in women's studies.

0101	Heidi Scott MWF 12:00pm - 12:50pm	Seats (Total: 30) KEY 0116

WMST386 **Experiential Learning**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail

Restriction: Must have Learning Proposal approved by Women's Studies Academic Advisor; and junior standing or higher.

Contact department for information to register for this course.

WMST400 **Theories of Feminism**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course in WMST; or must have completed a course cross-listed with a WMST course.

A study of the multiplicity of feminist theories which have been developed to explain women's position in the family, the workplace, and society. Major feminist writings are considered in the context of their historical moment and in the context of the intellectual traditions to which they relate.

0101	Sydney Lewis TuTh 9:30am - 10:45am	Seats (Total: 30) ASY 3207

WMST428C **Topics in Women's Studies; Race and Reproduction**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Thematic exploration of a topic in women's studies.

Also offered as AASP499C AMST498E, and SOCY498F. Credit only granted for AASP499C, AMST498E, SOCY498F, or WMST428C.

0101	Sangeetha Madhavan W 2:00pm - 4:30pm	Seats (Total: 35) ASY 3203

WMST428K **Topics in Women's Studies; Black is...Black Ain't**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Thematic exploration of a topic in women's studies.

Also offered as THET408B and AMST428B. Credit only granted for AMST428B, THET408B, or WMST428K. In this course we will examine an array of performance texts in an effort to understand how Blackness represented in U.S. popular culture. The course will aim to deconstruct stereotypes of Blackness in the U.S and African diaspora while focusing specifically on it relations to and intersections with gender and sexuality. We will investigate how Black people are portrayed and represented in history, literature, and popular culture and challenge the notion of essential or authentic Blackness. Throughout the course, we will engage various theories of performance and identity and explore race, gender and sexuality as constructed categories.

0101	Tabitha Chester F 1:00pm - 3:30pm	Seats (Total: 12) PAC 1815

WMST452 **Women in the Media**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit , D General Education: DVUP

Also offered as: JOUR452. Credit only granted for: JOUR452 or WMST452.

Participation and portrayal of women in the mass media from colonial to contemporary times.

0101	Renee Poussaint TuTh 5:00pm - 6:15pm	Seats (Total: 30) KNI 3202

WMST488B **Senior Seminar; Health Inequality and Social Determinants: How Race, Ethnicity, Class, and Gender Matter**

(Perm req)

Credits: 3 Grading Method: Regular

Seminar for advanced majors in women's studies or other students with appropriate preparation. Interdisciplinary topics will vary each semester.

0101	Ruth Zambrana Tu 3:30pm - 6:00pm	Seats (Total: 12) WDS 2101R

WMST488E **Senior Seminar; Girlhood: A Transnational History**

(Perm req)

Credits: 3 Grading Method: Regular

Seminar for advanced majors in women's studies or other students with appropriate preparation. Interdisciplinary topics will vary each semester.

How are girls distinguished from women? This course is about why and how this question has been answered in varying ways over the past two and a half centuries. We will delve into the distinctions drawn between girls and women across the globe (including the United States). We will engage with historical material about health, medicine, law, religion, visual and popular culture. In particular, we will think about how girlhood is imagined in idealized ways, and ask which girls have access to, or are denied, idealized girlhood.

0101	Ashwini Tambe	Seats (Total: 15)
	F 11:00am - 1:30pm	ARC 1127

WMST498A **Advanced Special Topics in Women's Studies; Community Interventions: Domestic Violence**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

0101	Karen O'Brien	Seats (Total: 35)
	MW 8:00am - 9:15am	PLS 1111

WMST498D **Advanced Special Topics in Women's Studies; Sex, Gender, and Sexuality in the Islamic World**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Also offered as PERS 498M, PERS 689M, HIST 419C, HIST 619E, WMST 698D, and CMLT 679D. Credit only granted for PERS 498M, PERS 689M, CMLT 679D, HIST 419C, HIST 619E, WMST 498D, or WMST 698D. Sex, Gender, and Sexuality in the Islamic World is an advanced introduction to the study of the changing norms of sex, gender, and sexuality in the Islamicate world, past and present. Through engagement with primary source readings, recent scholarly studies, and theoretical literature from Gender and Sexuality Studies and Queer Theory, we will cover such topics as: Islamic sexual ethics; homo- and heteroerotic poetry and art of both the spiritual and profane varieties; transvestism , androgyny, and gender nonconformity in the medieval Islamic world; premodern Islamic medical and courtly advice literature on sex; and the construction of "sexuality" (homo- and heterosexuality) in the modern Middle East. The course does not require any prior knowledge of Gender and Sexuality Studies or Islamicate cultures and languages.

0101	Matthew Miller	Seats (Total: 15)
	W 6:30pm - 9:00pm	JMZ 0120

WMST498J **Advanced Special Topics in Women's Studies; Contemporary Chinese and Chinese American Cinema on Women**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

0101	Jason Kuo	Seats (Total: 10)
	TuTh 12:30pm - 1:45pm	HBK 0302J

WMST498L **Advanced Special Topics in Women's Studies; Women in Israel**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

WMST498T **Advanced Special Topics in Women's Studies; Dead Sea Scrolls in Gendered Perspective**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Also offered as JWST409V. Credit granted for JWST409V or WMST498T. The Dead Sea Scrolls, one of the great archaeological finds of the twentieth century, provide evidence for an ancient Jewish movement that arose in opposition to mainstream Judaism during the Hellenistic and early Roman periods. While awaiting a messiah and a violent endtimes judgment, this movement developed unusual religious practices, possibly including celibacy and certainly including strict rules about marriage and sexual behavior. How do sex, gender, and sexuality relate to religious identity? How do gender and power interrelate? Attention to the Dead Sea Scrolls in gendered perspective will allow us to answer these questions and to better understand an especially fascinating moment in ancient Jewish history.

0101	Maxine Grossman	Seats (Total: 20)
	Th 4:00pm - 6:30pm	SQH 1111

WMST498Y **Advanced Special Topics in Women's Studies; Dickinson, Whitman, Erotics, and American Poetry**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHS, DVUP

Also offered as ENGL439D and LGBT448Y. Credit granted for ENGL439D, LGBT448Y, or WMST498Y.

0101	Martha Nell Smith	Seats (Total: 23)
	TuTh 12:30pm - 1:45pm	TWS 0205

WMST499 **Independent Study**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail

Research and writing or specific readings on a topic selected by the student and supervised by a faculty member of the Women's Studies Department.

Contact department for information to register for this course.

WMST601 **Approaches to Women's Studies I**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: WMST400; or students who have taken courses with comparable content may contact the department.

Examines two fundamental concepts in women's studies: intersectionality and interdisciplinarity. Looks at how feminisms have shaped and been shaped by knowledge-production within and across disciplinary boundaries, cultures, and paradigms. Develops an appreciation of intersectional theory as a critical research tool and as a set of responses to issues of power, domination, oppression and other loci of difference.

0101	Michelle Rowley	Seats (Total: 12)
	Th 4:00pm - 6:30pm	WDS 2101R

WMST618 **Feminist Pedagogy**

(Perm req)

Credits: 3 Grading Method: Regular

Examines the higher education classroom from a feminist perspective through theory and analysis. Students are graduate teaching assistants with the Women's Studies department.

Prerequisite: permission of department. For WMST major onlys.

0101	Ivan Ramos	Seats (Total: 4)
	Contact instructor or department for details.	

WMST619 **Women's Studies Teaching Practicum**

(Perm req)

Credits: 1 Grading Method: Regular

Provides Women's Studies graduate teaching assistants with ongoing regular faculty supervision during the semesters the students are teaching WMST courses.

Prerequisite: permission of department. For WMST majors only.

0101	Elsa Barkley Brown	Seats (Total: 10)
	Contact instructor or department for details.	

WMST628 **Women's Studies Colloquium**

(Perm req)

Credits: 1 Grading Method: Sat-Fail

An intensive advanced exploration of current problems and issues in women's studies.

0101	Ashwini Tambe	Seats (Total: 18)
	Contact instructor or department for details.	

WMST698D **Special Topics in Women's Studies; Sex, Gender, and Sexuality in the Islamic World**

Credits: 3 Grading Method: Regular, Audit

Advanced worik in selected topics in Women's Studies.

Also offered as PERS 498M, PERS 689M, HIST 419C, HIST 619E, WMST 498D, and CMLT 679D. Credit only granted for PERS 498M, PERS 689M, CMLT 679D, HIST 419C, HIST 619E, WMST 498D, or WMST 698D. Sex, Gender, and Sexuality in the Islamic World is an advanced introduction to the study of the changing norms of sex, gender, and sexuality in the Islamicate world, past and present. Through engagement with primary source readings, recent scholarly studies, and theoretical literature from Gender and Sexuality Studies and Queer Theory, we will cover such topics as: Islamic sexual ethics; homo- and heteroerotic poetry and art of both the spiritual and profane varieties; transvestism , androgyny, and gender nonconformity in the medieval Islamic world; premodern Islamic medical and courtly advice literature on sex; and the construction of "sexuality" (homo- and heterosexuality) in the modern Middle East. The course does not require any prior knowledge of Gender and Sexuality Studies or Islamicate cultures and languages.

0101	Matthew Miller	Seats (Total: 15)
	W 6:30pm - 9:00pm	JMZ 0120

WMST698V **Special Topics in Women's Studies; Sexuality, Subversion, Identity in Autofiction**

Credits: 3 Grading Method: Regular, Audit

Advanced worik in selected topics in Women's Studies.

Also offered as FREN699N. Credit only granted for FREN699N or WMST698V. Focus is placed on "autofiction" as a genre, and particularly on the intersections between public/private, aesthetics and politics, and sexuality and identity in the first-person narrative since 1980. Taught in French.

0101	Mercedes Baillargeon	Seats (Total: 10)
	Tu 4:30pm - 7:15pm	JMZ 2125

WMST699 **Independent Study**

(Perm req)

Credits: 1-3

Grading Method: Regular, Audit

Research and writing on specific readings on a topic selected by the student which is approved and supervised by a faculty member of the Women's Studies Department.

Contact department for information to register for this course.

WMST709 **Directed Independent Reading for Major Field Exam**

(Perm req)

Credits: 1-4 Grading Method: Sat-Fail

Directed reading in preparation for Major Field Exam. In consultation with their advisors, students identify, analyze, critique and synthesize material relevant to their major fields of inquiry. Grading will be based on combinations of oral performance in the bi-weekly meetings, production of annotated bibliographies and synthetic papers.

Contact department for information to register for this course.

WMST799 **Masters Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

WMST898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8

Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

WMST899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.